Canon

BUBBLE JET PRINTER

S500

User's Guide

V1

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Introduction

Thank you for purchasing the Canon S500 Bubble Jet Printer. This User's Guide provides complete explanations of the features and functions of the printer.

This guide uses the following symbols to indicate important information. Always observe these instructions.

Warning ➤ Instructions that, if ignored, could result in death or serious personal injury caused by incorrect operation of the equipment.
Must be observed for safe operation.

Caution ➤ Instructions that, if ignored, could result in personal injury or material damage caused by incorrect operation of the equipment.
Must be observed for safe operation.

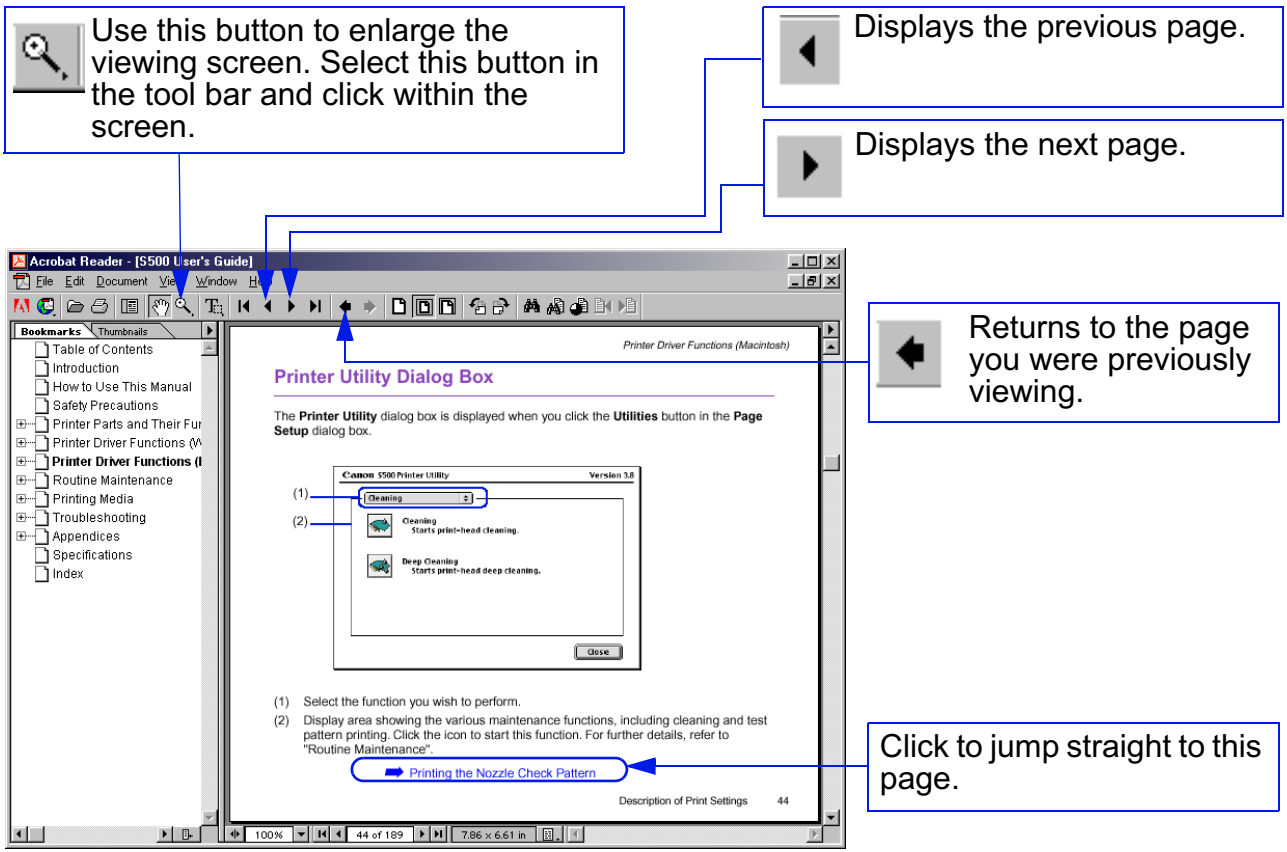
Important ➤ Prohibited actions that, inadvertently performed, could result in equipment damage, faults or impaired product quality.
Must be avoided for correct operation.

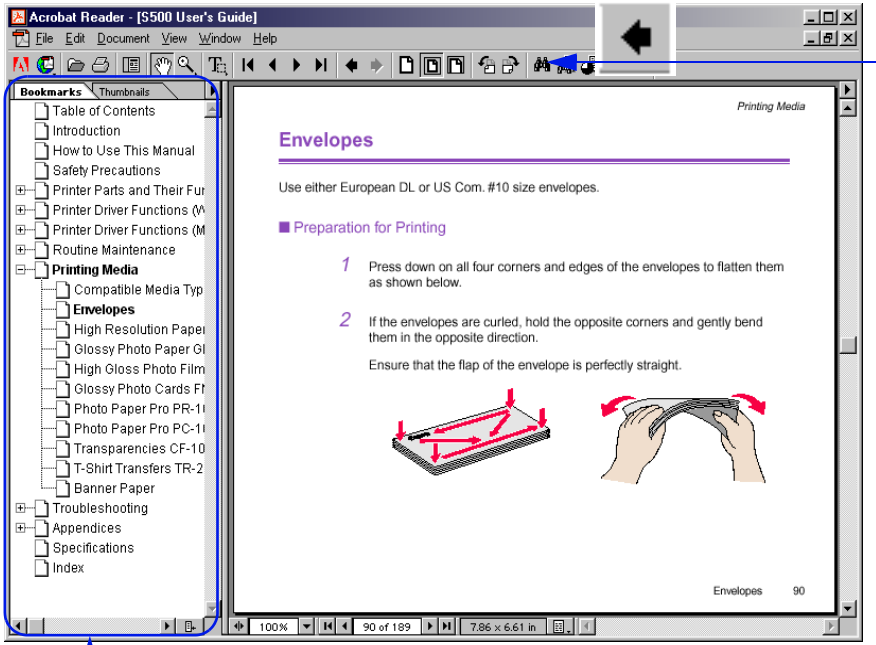
Windows Information for Windows users only.

Macintosh Information for Macintosh (USB users only).

How to Use This Manual

To view this User's Guide, we recommend that you use Acrobat Reader 4.0 or Acrobat Reader 3.0. Please note that screens displayed by Acrobat Reader 3.0 are slightly different.





Use this button to search for a word.

Displays the table of contents.
Click the heading to jump to the topic.

Click the "⊞" symbol to see the headings for each chapter.

Click the "⊟" symbol to close the headings.

Safety Precautions

Please read the safety warnings and cautions provided in this manual to ensure that you use the printer safely. Do not attempt to use the printer in any way not described in this manual.

Warning ➤ You may cause an electric shock/fire or damage the printer if you ignore any of these safety precautions.

■ Choosing a location

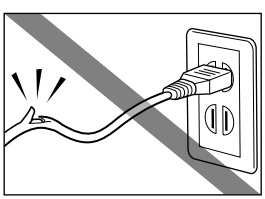
Do not place the printer close to flammable solvents such as alcohol or thinners.

■ Power supply

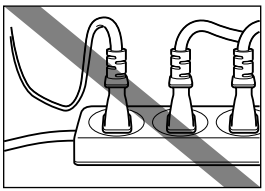
Never attempt to plug in or unplug the printer from the power supply when your hands are wet.

Always push the plug all the way into the power outlet.

Never damage, modify, stretch or excessively bend or twist the power cord. Do not place heavy objects on the power cord.



Never plug the printer into a power socket that is shared with other equipment (extension lead, double adapter, etc.).



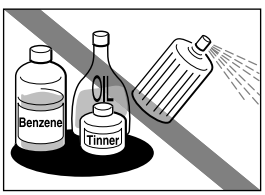
Never use the printer if the power cord is bundled or knotted.

If you detect smoke, unusual smells or strange noises around the printer, immediately unplug the printer at the power supply and call for service.

■ Cleaning the printer

Use a damp cloth to clean the printer. Never use flammable solvents such as alcohol, benzene or thinners.

If flammable solvents come in contact with electrical components inside the printer, it could cause a fire or electric shock.



Always unplug the printer from the power outlet before cleaning the printer.

If you accidentally switch the printer on while cleaning it, you could injure yourself or damage the printer.

Maintaining the printer

Do not attempt to disassemble or modify the printer. There are no user serviceable parts inside the printer.

The printer contains high-voltage components. Never attempt any maintenance procedure not described in this guide.

Working around the printer

Do not use flammable sprays near the printer.

This could cause a fire or electric shock if the spray comes into contact with electrical components inside the printer.

Caution ➤ You may cause injury or damage the printer if you ignore any of these safety precautions.

■ Choosing a location

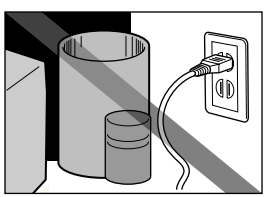
Do not install the printer in a location that is unstable or subject to excessive vibration.

Do not install the printer in locations that are very humid or dusty, in direct sunlight, outdoors, or close to a heating source.

To avoid the risk of fire or electric shocks, install the printer in a location with an ambient temperature range of 41°F to 95°F and humidity of 10% to 90% (condensation free).

Do not place the printer on a thick rug or carpet.

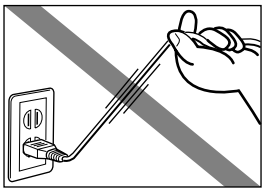
Ensure that the area around the power outlet is kept clear at all times so you can easily unplug the power cord if necessary.



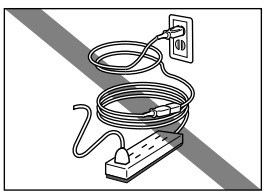
When moving the printer, carry the printer at both ends.

■ Power supply

Never remove the plug by pulling on the cord.



Do not use an extension lead.



If you do not intend to use the printer for a long period of time, unplug the printer after turning it off.

Never use a power supply voltage other than that supplied in the country of purchase.

The correct power supply voltages and frequencies are as follows: AC 120V, 60Hz

■ Working around the printer

Never put your hands or fingers in the printer while it is printing.

Do not place metal objects (paper clips, staples, etc.) or containers of flammable solvents (alcohol, thinners. etc.) on top of the printer.

If any foreign object (metal or liquid) falls into the printer, unplug the power cord and call for service.

■ Print heads and ink tanks

For safety reasons store print heads and ink tanks out of the reach of small children.

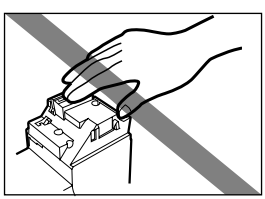
If a child ingests any ink, consult a doctor immediately.

Do not shake print heads or ink tanks.

Ink may leak out and stain clothing or the surrounding area.

Never touch the electrical contacts on a print head after printing.

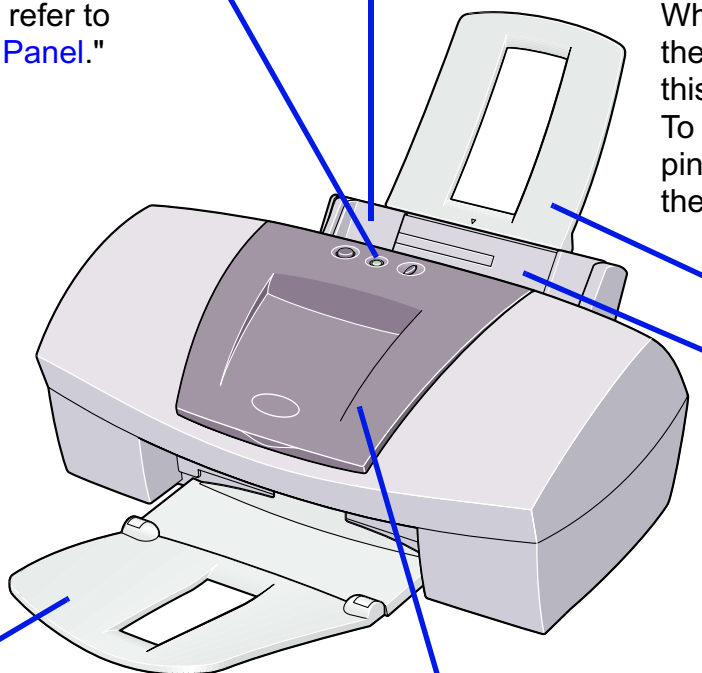
The metal parts may be very hot and could cause burns.



Printer Parts and Their Functions

- Front View
- Rear View
- Inside the Printer
- Operation Panel

Front View



Operation Panel
For details, refer to "Operation Panel."

Paper Guide
When loading paper, ensure the left edge just touches this guide.
To move the paper guide, pinch the knob and slide in the appropriate direction.

Paper Rest

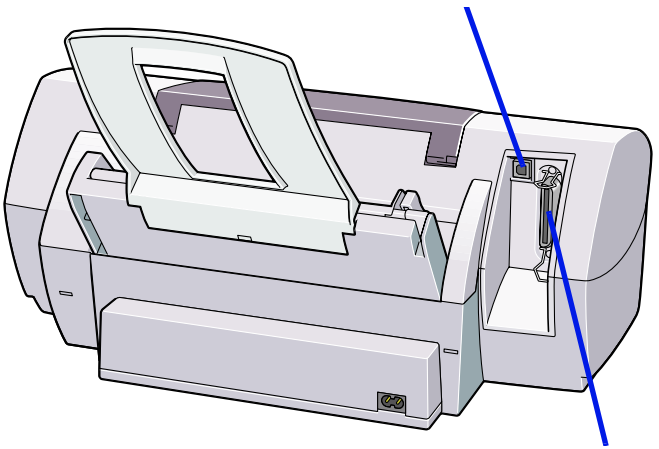
Sheet Feeder
Load paper here. Paper feeds automatically, one sheet at a time.

Paper Output Tray

Front Cover
Open to replace the ink tanks or remove jammed paper.

Rear View

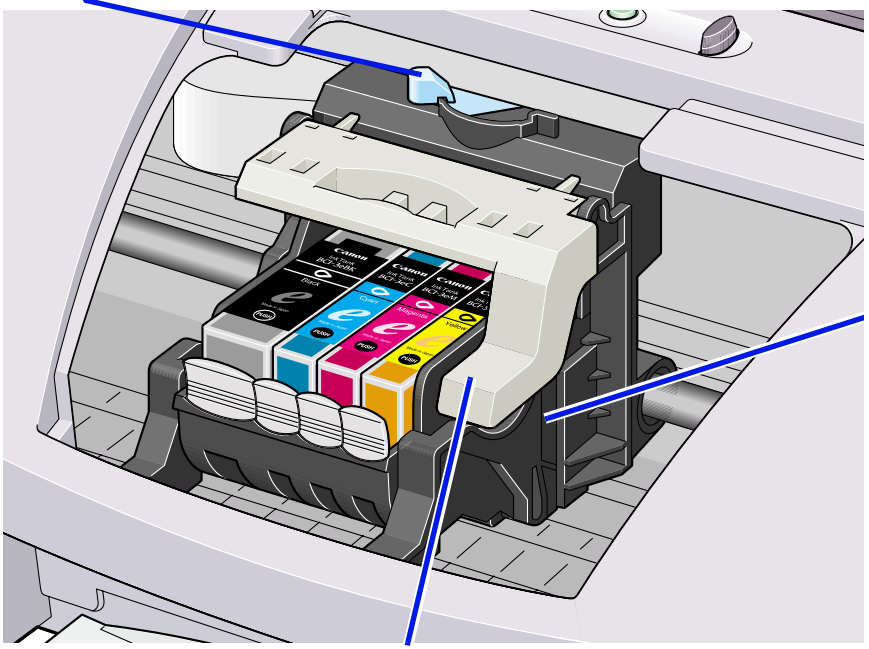
USB Port
This connector is used to connect the printer to a computer through a USB interface.



Printer Port (Parallel)
This connector is used to connect the printer to a computer through a parallel interface.

Inside the Printer

Paper Thickness Lever
Adjusts the gap between the print head and the surface of the printing paper.



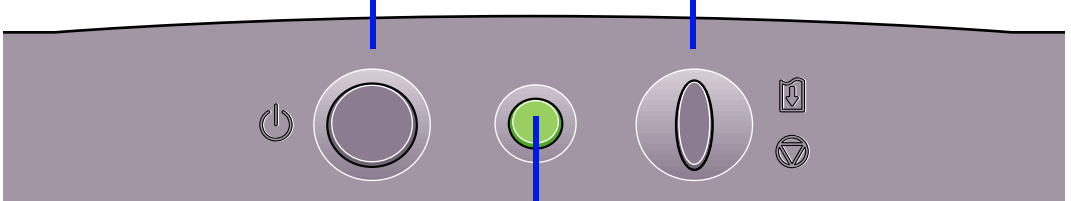
Print Head Holder
Install the print head here.

Print Head Lock Lever
Locks the print head into the holder.
Once the print head is installed, do not touch this lever.

Operation Panel

RESUME/CANCEL Button
Press to resume printing once an error has been resolved. The printer will then initialize ready for printing.
Also, to cancel printing in progress, press this button.

POWER Button
Press to turn the printer on or off.



POWER Lamp
Off: the printer is turned off.
Green: the printer is ready to print.
Flashing green: the printer is preparing to print, or is currently printing.
Flashing orange: an error has occurred and the printer is not ready to print.
Flashing orange and green alternately: an error has occurred that may require a service call.

Printer Driver Functions (Windows)

- Opening the Printer Properties Dialog Box
- Printer Properties Dialog Box Description
- BJ Status Monitor Functions
- Cancelling a Print Job
- Uninstalling Printer Drivers

Opening the Printer Properties Dialog Box

The Printer Properties dialog box can be opened from either within an application, or directly from the Windows [Start] menu.

■ Opening the Printer Properties dialog box from your application program

This method is generally used to specify printer settings just before printing.
The operations may vary slightly depending on your application program. This section describes only the general procedure for opening the Printer Properties dialog box.

1 In your application, select the command to print a document.

The [Print] dialog box can usually be opened by selecting [Print] from the [File] menu.

2 Ensure that [Canon S500] is selected in the [Name] field. Then click the [Properties] button.

The Printer Properties dialog box opens.

Note ➤ Depending on your application program, the command and menu names may differ, and there may be more steps involved in opening the Printer Properties dialog box. For further details, see the user's manual for your application.

Opening the Printer Properties dialog box directly from the [Start] menu

This method is used for maintenance operations such as print head cleaning, or to specify printer settings common to all application programs.
When the Printer Properties dialog box is opened from the [Start] menu, the Windows operating system adds several tabs, including the [Details] tab. These do not appear when the Printer Properties dialog box is opened from within an application.
For further information about these additional tabs, refer to your Windows documentation.

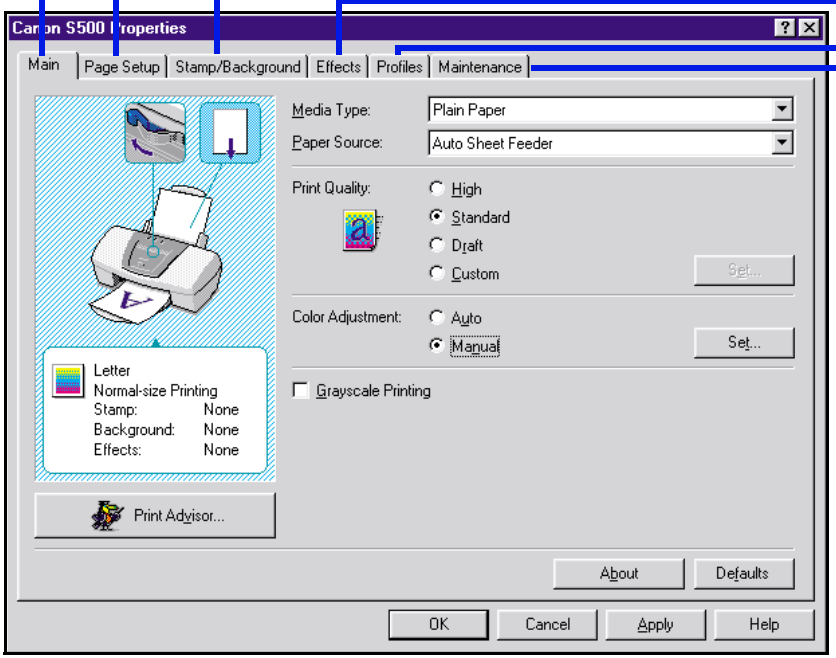
1. Click the [Start] button, then select [Settings], [Printers].

2. Select the [Canon S500] icon.

3. Open the [File] menu and select:
   - Windows 95/Windows 98/Windows Me ➔ [Properties]
   - Windows 2000 ➔ [Printing Preferences...]
   - Windows NT 4.0 ➔ [Document Defaults...]

   The Printer Properties dialog box opens.

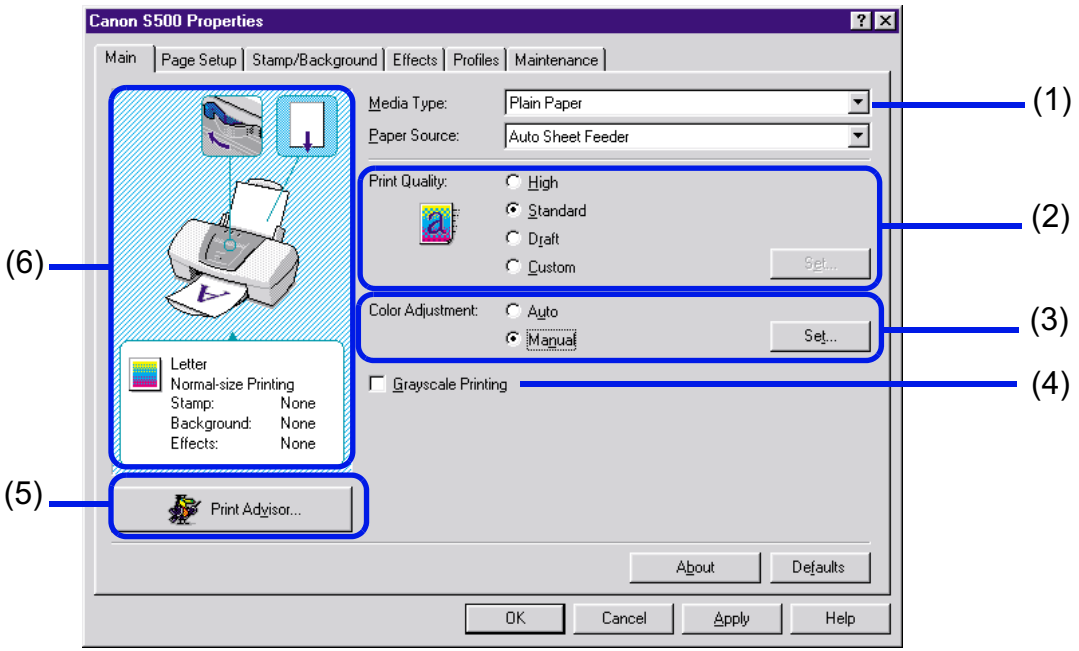
Printer Properties Dialog Box Description



- [Main] Tab
- [Page Setup] Tab
- [Stamp/Background] Tab (Not Available in Windows NT 4.0)
- [Effects] Tab
- [Profiles] Properties Tab
- [Maintenance] Properties Tab

Note ➤ The screens in this section refer to Windows 95/Windows 98/Windows Me operation. The equivalent screens for Windows 2000 and Windows NT 4.0 may look slightly different.

[Main] Tab



(1) [Media Type]
Ensure this setting matches the type of media loaded in the printer.

(2) [Print Quality]
Select the print quality you require from among the different options. To select custom Print quality, select [Custom] and click the [Set...] button.

(3) [Color Adjustment]
Select the method of color adjustment. To make detailed color adjustments, select [Manual], then click the [Set...] button.

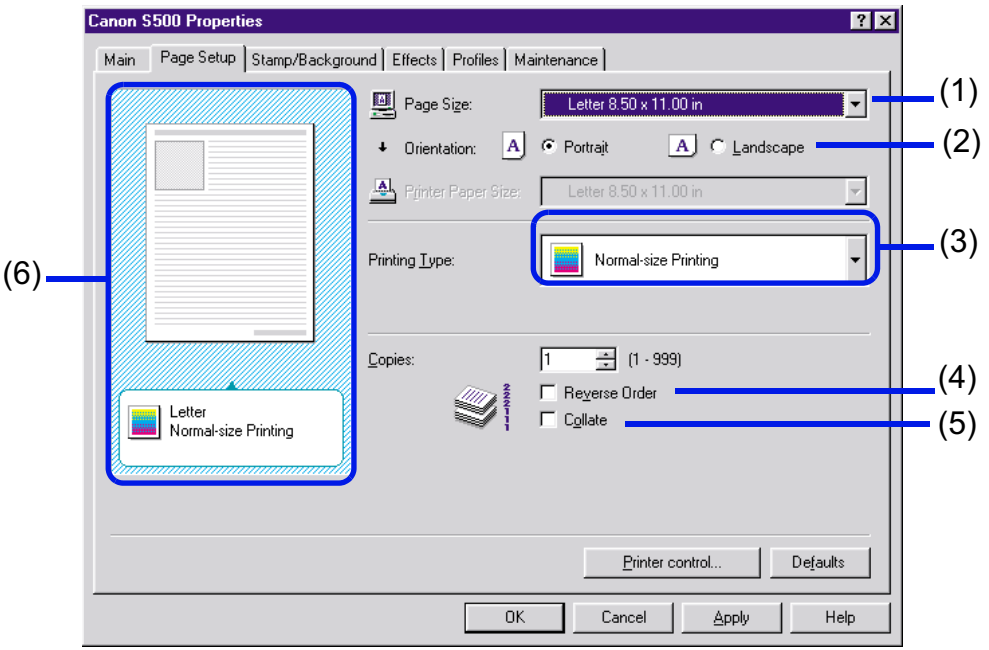
(4) [Grayscale Printing]
Select to print a grayscale version of a color document.

(5) [Print Advisor...]
Click to start the Print Advisor.
The Print Advisor simplifies configuration of the printer driver. By having the user answer a series of questions, the Printer Advisor automatically configures the printer driver settings.

(6) Preview Area
Before starting printing, verify that settings such as the lever position are correct.

Note ➤ To see a description of any item in the Printer Properties dialog box, click the [?] mark then click the desired item. To see a description of operating procedures, click the [Help] button. If the button does not appear when using Windows 2000 or Windows NT 4.0, click the [Start] button then select [Programs] - [Canon S500] - [Guide].

[Page Setup] Tab



(1) [Page Size]
Ensure the correct paper size is selected.

(2) [Orientation]
Select landscape or portrait printing and ensure it is the same orientation used in the application.

(3) [Printing Type]
Select the printing method from among the following.

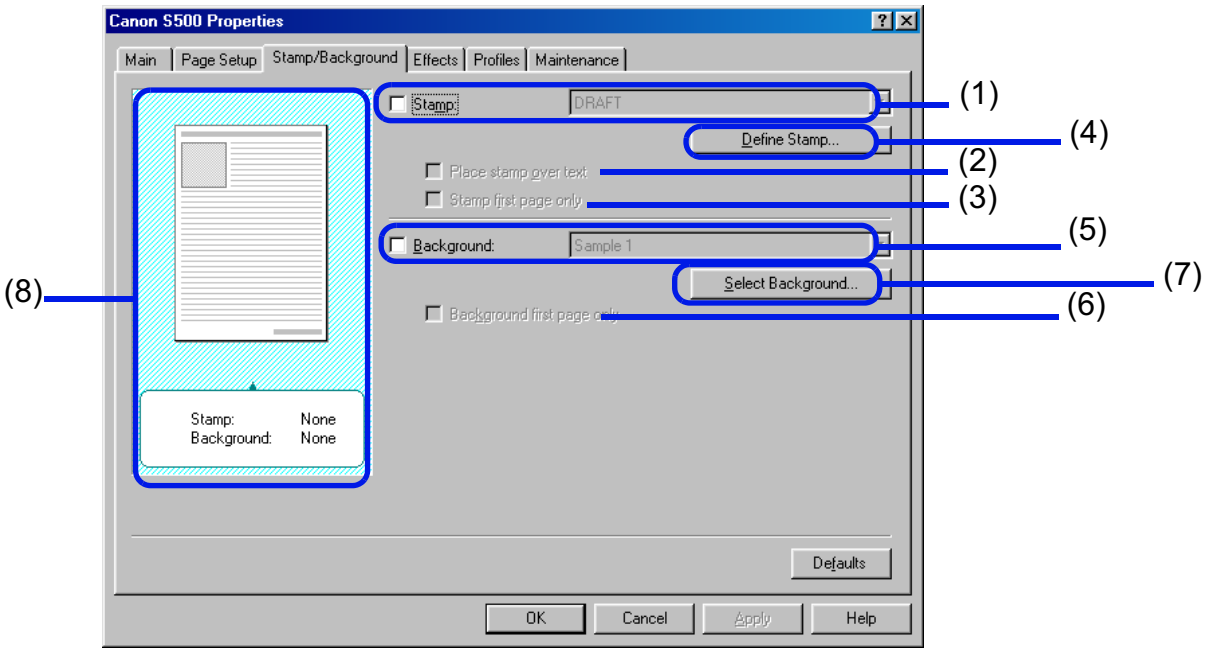
[Normal-size Printing]	The document is printed according to the original dimensions. This setting is usually selected by default.
[Fit-to-Page Printing]	The document is automatically resized to fit the paper size. When using this function, ensure you correctly specify the [Page Size] and the [Printer Paper Size]. (Available only in Windows 2000/Windows NT 4.0)
[Scaled Printing]	The document is resized when printed. When this is selected, you can specify the [Printer Paper Size] and [Resize Percentage].
[Page Layout Printing]	Pages are reduced and printed so that two or four document pages fit on each printed page.
[Poster Printing]	This enlarges and splits the print image across several sheets of paper. The printed sheets can then be assembled to make a large poster. (Not available in Windows NT 4.0)
[Banner Printing]	Select this when printing on banner paper.

(4) [Reverse order]
When selected, the document starts printing with the last page.

(5) [Collate]
Select to print multiple copies of the document one copy at a time.

(6) Preview Area
Verify the overall layout, stamps, background, etc., to be applied to the print job.

[Stamp/Background] Tab (Not Available in Windows NT 4.0)



(1) [Stamp]
Select the check box and choose the stamp.

(2) [Place stamp over text]
When selected, the stamp is printed over the print data.

(3) [Stamp first page only]
Prints the stamp only on the first page.

(4) [Define Stamp...]
This allows you to create new stamps, or modify details of a selected stamp.

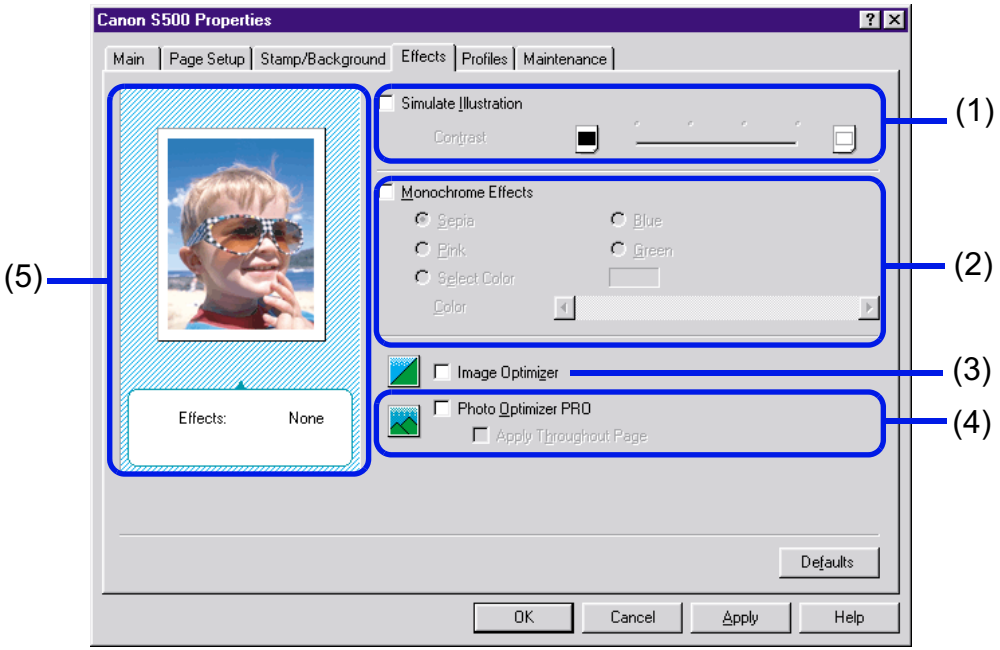
(5) [Background]
Select the check box and choose the background image you wish to use.

(6) [Background first page only]
Prints the background image only on the first page.

(7) [Select Background...]
This allows you to register a new background, or to display details of the background you have selected.

(8) Preview Area

[Effects] Tab



(1) [Simulate Illustration]
This function manipulates color image data with certain effects. Select the check box and adjust the brightness of the image with the [Contrast] slide bar.

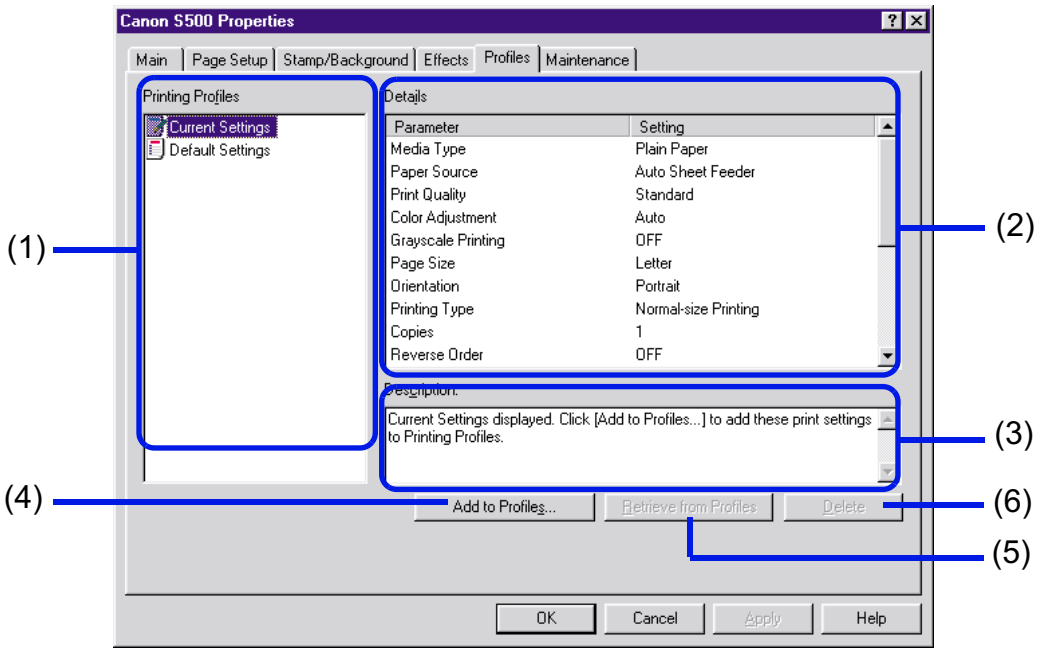
(2) [Monochrome Effects]
Prints a color image in a single color. Select the check box and choose a color or use a custom color using [Select Color].

(3) [Image Optimizer]
Improves the contours and jaggedness that occur when photographic or graphic image data is enlarged within an application.

(4) [Photo Optimizer PRO]
Optimizes the color of images taken from a digital camera or scanner. It is especially effective for images affected by color imbalance and over- or under exposure.
When printing several images on one page, optimization is usually applied to each image according to its requirements. However, if the image data has been manipulated using cut and paste, rotation or other such operations, group optimization of all images on the one page is recommended. In such cases, select the [Apply Throughout Page] check box.

(5) Preview Area

[Profiles] Properties Tab



(1) [Printing Profiles]
This list displays the printing settings currently registered in the Profiles tab. The [Current Settings] profile contains the settings currently specified in the [Main], [Page Setup] and [Effects] tabs. The [Default Settings] profile contains the factory default settings.

(2) [Details]
Displays all the printer settings selected in [Printing Profiles].

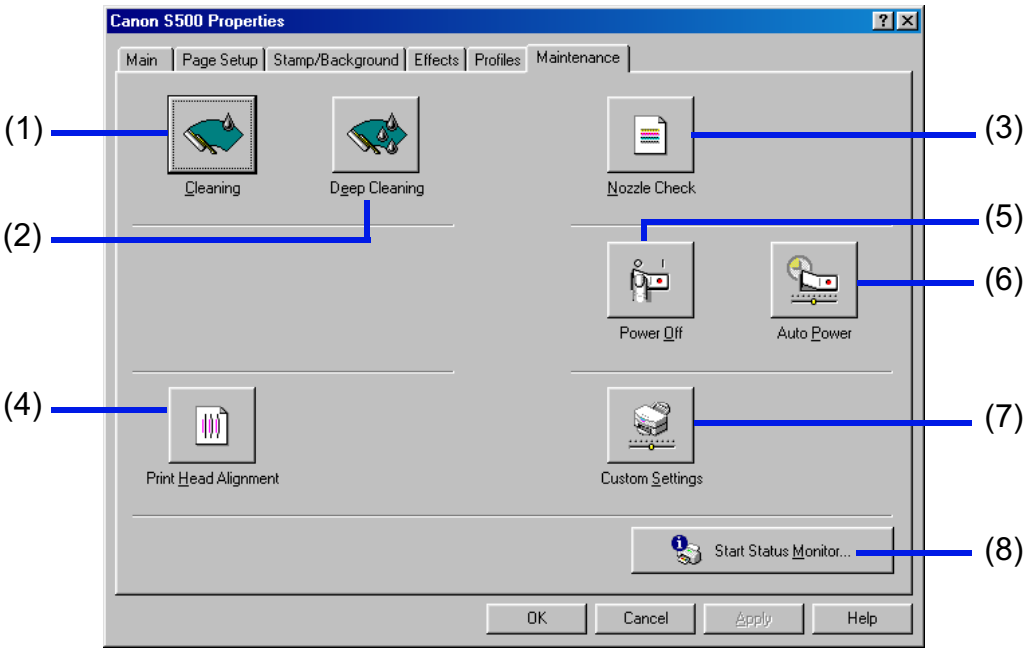
(3) [Description]
Displays a description of the printer settings selected in [Printing Profiles]. You can enter the description when saving the printer settings.

(4) [Add to Profiles...]
Click to save the settings currently specified in the [Main], [Page Setup] and [Effects] tabs. Select [Current Settings] in the [Printing Profiles] list then click this button. The [Add to Profiles...] dialog box appears.

(5) [Retrieve from Profiles]
Click to activate registered printer settings. The contents of the [Main], [Page Setup] and [Effects] tabs are changed by selecting the printer settings in [Printing Profiles], then clicking this button.
This button is disabled when [Current Settings] is selected.

(6) [Delete]
Click to delete unwanted printer settings. Select the unwanted item in the [Printing Profiles] list and click the [Delete] button.
[Current Settings] and [Default Settings] cannot be deleted.

[Maintenance] Properties Tab



(1) [Cleaning]
Click to start print head cleaning.

(2) [Deep Cleaning]
Click to start print head deep cleaning.
Use this function only if [Cleaning] has not improved the print quality.

(3) [Nozzle Check]
Prints the nozzle check pattern to ensure the print head nozzles are outputting ink normally. For details, refer to “Examining the Nozzle Check Pattern”.

(4) [Print Head Alignment]
Aligns the print head. For details on print head alignment, refer to the *Quick Start Guide*.

(5) [Power Off]
Click to turn the printer off.

(6) [Auto Power]
This allows you to turn the printer off when no data is sent to the printer for a certain period of time, or turn the printer back on again when data is sent to the printer.

(7) [Custom Settings...]
Click to modify the printer mode. Change the settings in the [Custom Setting] dialog box and click [Send] to change printer mode.

(8) [Start Status Monitor]
Click to start the BJ Status Monitor, to check the printer status and the progress of printing jobs.

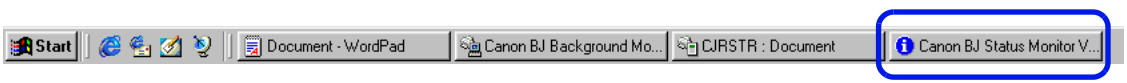
BJ Status Monitor Functions

The BJ Status Monitor allows you to check the status of the printer.
If an error occurs, the status monitor indicates the nature of the error and suggests an appropriate solution. The status monitor also checks the ink tanks and displays a warning message when the ink is low.

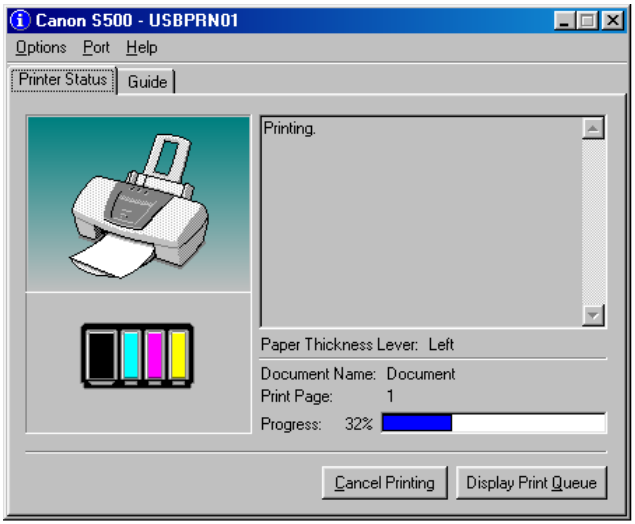
■ Launching the BJ Status Monitor

The BJ Status Monitor launches automatically when data is sent to the printer. When launched, the BJ Status Monitor appears as an icon on the Task Bar.

1 Click the [Canon BJ Status Monitor] icon on the Task Bar.



The BJ Status Monitor appears.

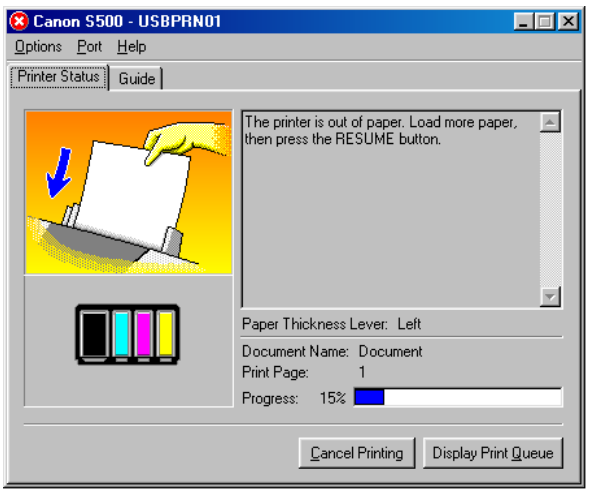


Note ➤ To open the BJ Status Monitor when the printer is not printing, click the [Maintenance] tab in the Printer Properties dialog box and click the [Start Status Monitor] button.

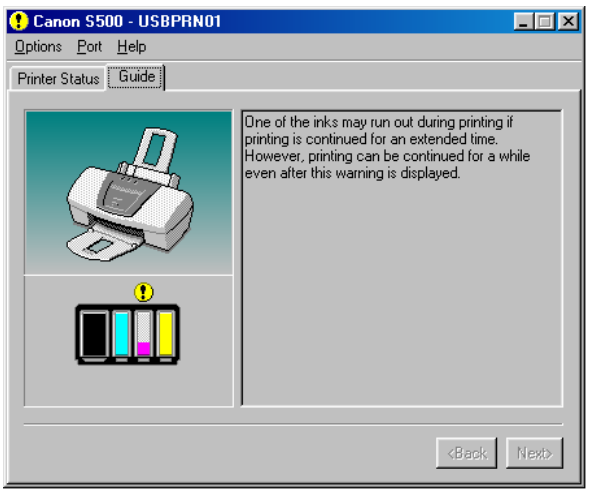
When errors occur or ink runs low

The BJ Status Monitor is automatically displayed when an error occurs; for example, if the printer runs out of paper or ink is low.
In such cases, take the appropriate action as described in the [Printer Status] tab.
In Windows 95, Windows 98 or Windows Me, click the [Guide] tab and follow the instructions on screen.

When paper has run out:



When the ink level is low:



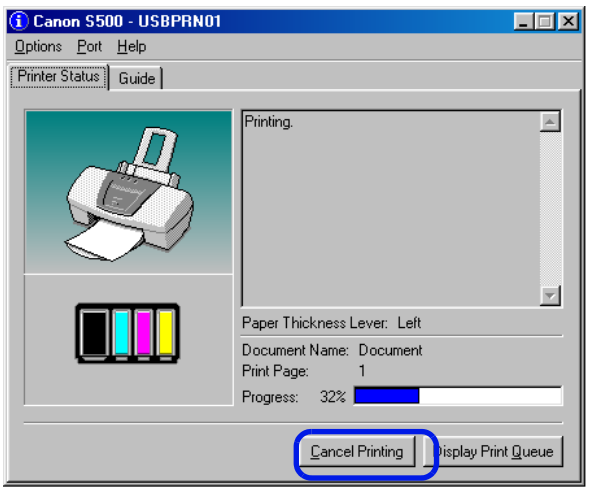
Note ➤ For details on the BJ Status Monitor, select the [Help] menu and click on the topic of interest.

Cancelling a Print Job

To cancel the current print job, first open the BJ Status Monitor.

1 Click the [Canon BJ Status Monitor] icon on the Task Bar.

2 Click [Cancel Printing].



Note ➤ If [Cancel Printing] is grayed out, press the printer's RESUME/CANCEL button to terminate the print job.

Uninstalling Printer Drivers

Use the Uninstaller to delete any unwanted printer drivers. This allows you to delete all the files associated with the printer driver at the same time.

1. Click the [Start] button and select [Programs], [Canon S500], [Uninstall].
2. Click [Yes] when the confirmation message appears.
3. When all the files have been deleted, click [OK].

   The deletion of the printer driver is complete.

If a message prompts you to restart your computer, click [OK] to restart your computer.

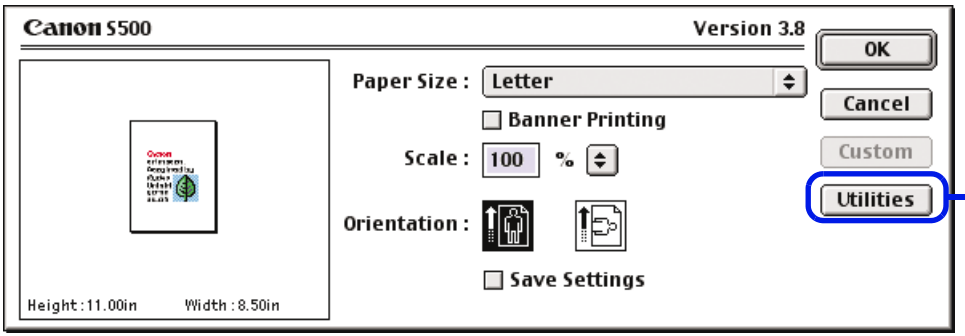
Note ➤ In Windows 95, Windows 98 or Windows Me, you can also start the Uninstaller by double-clicking on [Uninstall] in the [Canon S500] folder on the desktop.

Printer Driver Functions (Macintosh)

- Description of Print Settings
- BJ Print Monitor
- Cancelling a Print Job
- Using the Printer with a Network
- Uninstalling Printer Drivers

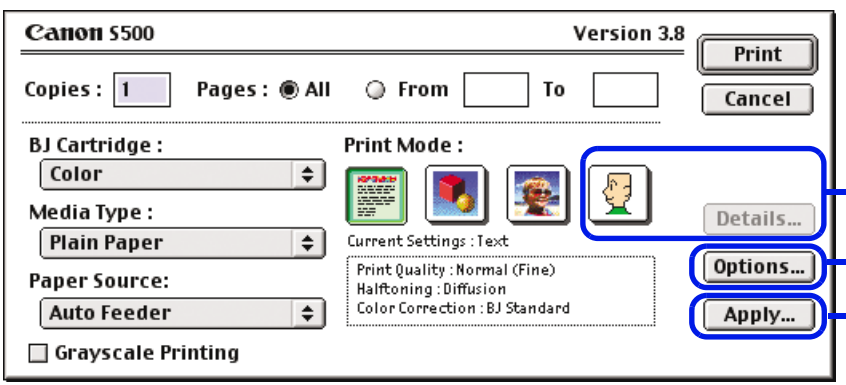
Description of Print Settings

- [Page Setup] Dialog Box



- [Printer Utility] Dialog Box

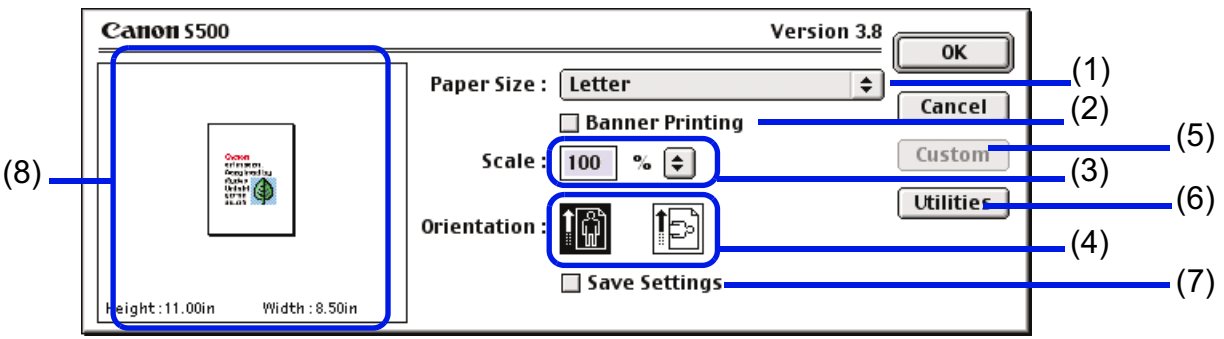
- [Print] Dialog Box



- [Detailed Setting] Dialog Box
- [Options] Dialog Box
- [Register Settings] Dialog Box

[Page Setup] Dialog Box

The Page Setup dialog box contains settings for the printed page, such as the size of the print media, and resizing the printed image. To open the Page Setup dialog box, select [Page Setup] from the [File] menu in your application program.



(1) [Paper Size]
Select the size of the paper for the print job. To enter the size manually, select [Custom 1] - [Custom 3] and click [Custom].

(2) [Banner Printing]
Select this check box when printing on banner paper.

(3) [Scale]
Specify the scaling percentage to resize the document for printing.

(4) [Orientation]
Select portrait or landscape printing.

(5) [Custom]
To specify a custom paper size, click this button to open the [Custom] dialog box after selecting [Custom 1] to [Custom 3] in the [Paper Size] popup menu. The [Custom] Dialog Box allows you to specify the length and width of the paper.

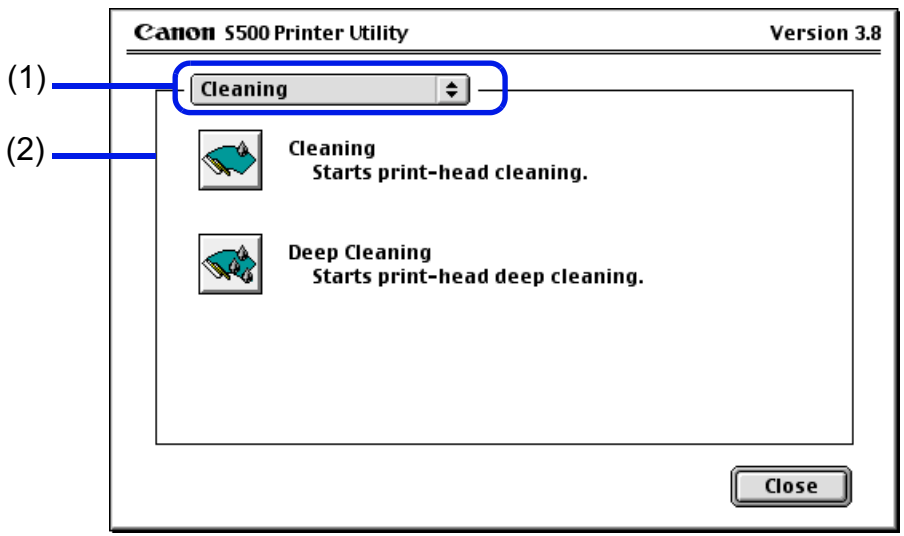
(6) [Utilities]
Click to open the [Printer Utility] dialog box for maintenance operations such as print head cleaning and nozzle check pattern printing, as well as for changing the print mode.

(7) [Save Settings]
Saves the settings specified in the [Page Setup] dialog box.

(8) Preview Area
This image allows you to confirm how the document will print with the selected paper settings.

[Printer Utility] Dialog Box

The [Printer Utility] dialog box is displayed when you click the [Utilities] button in the [Page Setup] dialog box.



(1) Select the function you wish to perform.

(2) Display area showing the various maintenance functions, including cleaning and test pattern printing. Click the icon to start this function. For further details, refer to "Routine Maintenance".

➡ Printing the Nozzle Check Pattern

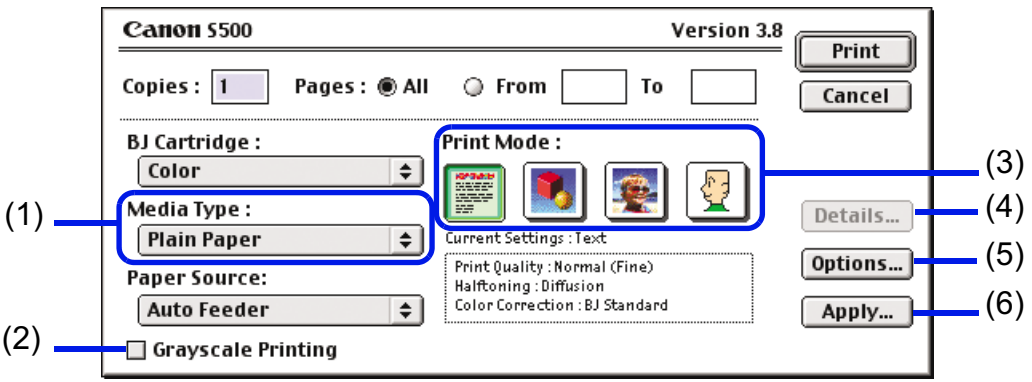
➡ Print Head Cleaning

➡ Print Head Deep Cleaning

Note ➤ For information about Print Head Alignment, refer to the *Quick Start Guide*.

[Print] Dialog Box

The [Print] dialog box specifies the media type and print settings to be used for your print job. To open the [Print] dialog box, select [Print] from the [File] menu in your application program.



(1) [Media Type]
Ensure this setting matches the type of paper media loaded in the printer.

(2) [Grayscale Printing]
Select to print a grayscale version of a color document.

(3) [Print Mode]
Select the icon that most closely resembles your document and required print results.

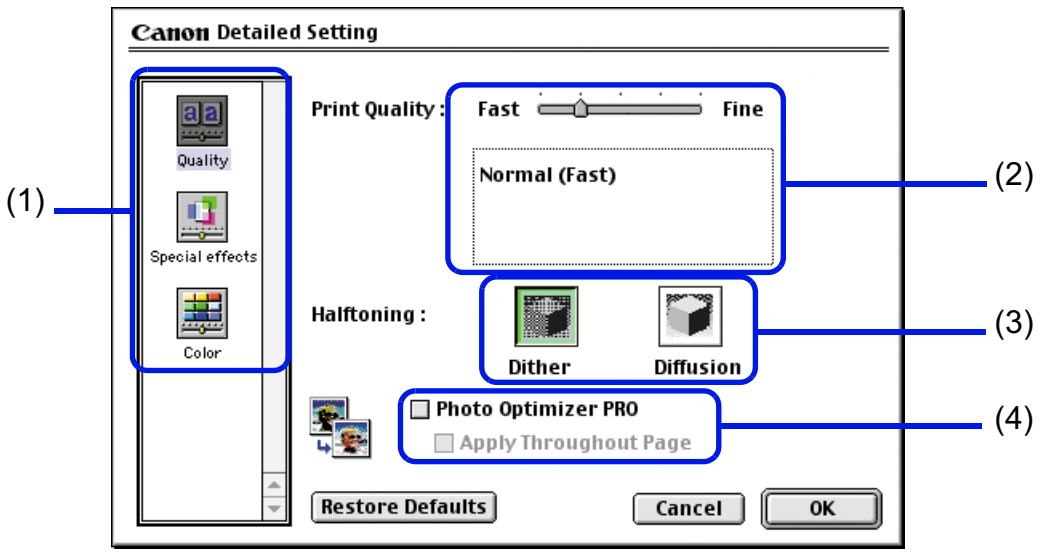
(4) [Details...]
Allows you to manually set the print quality and color settings in the [Detailed Setting] Dialog Box.

(5) [Options...]
Specify the output destination, print order and page layout for the document you are printing.

(6) [Apply...]
Allows you to register print settings or to implement a previously registered print setting.

[Detailed Setting] Dialog Box

To open the [Detailed Setting] dialog box, select [Manual] in the [Print] dialog box, then click [Details...].



(1) Panel display icons
Click these icons to switch between panels in the [Detailed Setting] dialog box.

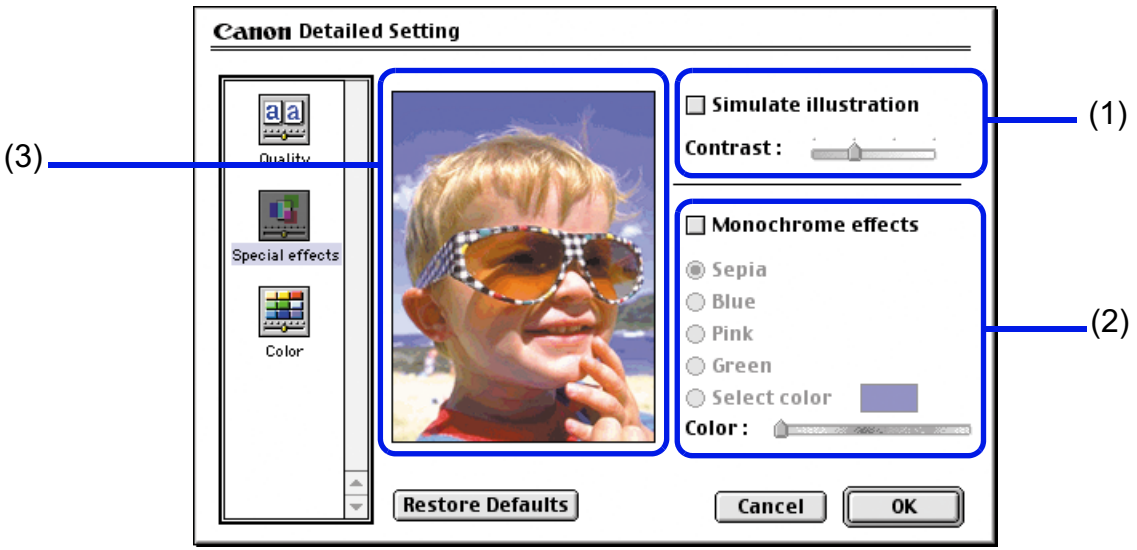
(2) [Print Quality]
Move the slide bar to adjust the balance between print quality and speed. Moving the bar to the right enhances print quality, and moving it to the left increases printing speed.

(3) [Halftoning]
Select either [Dither] or [Diffusion] ink dot configurations.

(4) [Photo Optimizer PRO]
Optimizes the color of images taken from a digital camera or scanner. It is especially effective for images affected by color imbalance and over- or under-exposure.
When printing several images on one printing page, optimization is usually applied to each image according to its requirements. However, if the image data has been manipulated using cut and paste, rotation or other such operations, group optimization of all images on the page is recommended. In such cases, select the [Apply Throughout Page] check box.

■ [Special Effects] Panel

To display the [Special Effects] panel, click the [Special effects] display icon.



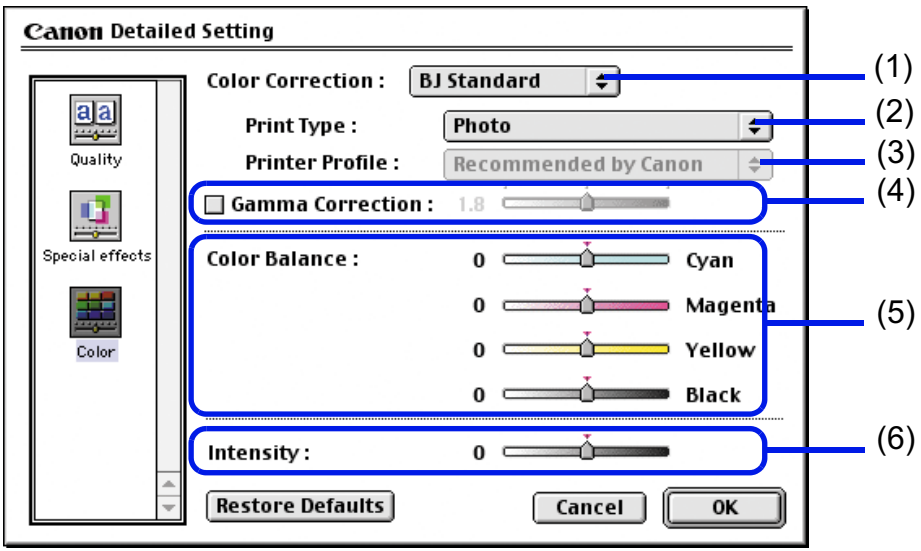
(1) [Simulate illustration]
This function manipulates color image data to produce illustration effects. To use the function, select the check box. To adjust the brightness of the image, drag the [Contrast] slide bar. Dragging the slider to the right brightens the image.

(2) [Monochrome effects]
Prints a color image in a single color. Select the check box and choose the color you wish to use.

(3) Preview Area

■ [Color] Panel

To display the [Color] panel, click the [Color] display icon.



(1) [Color Correction]
Select a color correction method: [BJ Standard], [Coloration] or [None]. [BJ Standard] is usually the optimum color correction method for printing with a BJ printer. When [Coloration] is selected, you should also specify the [Print Type] and [Printer Profile] settings.

(2) [Print Type]
For printing that emphasizes intermediate colors, select [Photo]. For printing that emphasizes the brightness of primary colors, select [Graphics]. For documents that contain large amounts of a basic color, select [Spot Color].

(3) [Printer Profile]
Select optimized color characteristics (a profile) for the media type and other factors.

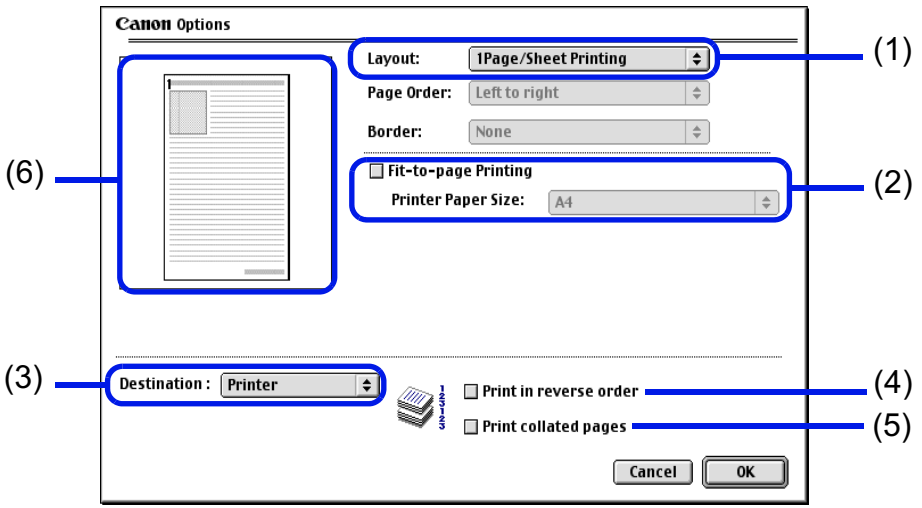
(4) [Gamma Correction]
This function adjusts the color contrast (not including pure black and white). To adjust the contrast, select the check box and move the slide bar. Moving the bar to the right darkens the entire image while increasing contrast in the lighter areas and decreasing contrast in the darker areas.

(5) [Color Balance]
Move the bar for each color to adjust the balance of color intensity. Moving the bar to the right intensifies the color.

(6) [Intensity]
Move the slide bar to adjust the print density. Moving the bar to the right increases the density.

[Options] Dialog Box

To open the [Options] dialog box, click the [Options...] button in the [Print] dialog box.



(1) [Layout]
Allows you to print two or four pages of a document on a single page, or to enlarge printing so that a single page spans multiple sheets of paper (Poster Printing). If you select [2Page/Sheet Printing] or [4Page/Sheet Printing], you should also set the [Page Order] to specify the document page order for printing. The [Border] option allows you to select whether to print a border around the individual document pages.

(2) [Fit-to-page Printing]
The document is automatically resized to fit the paper size. When using this function, ensure you correctly specify the [Printer Paper Size].

(3) [Destination]
Select the print output destination. [Printer] is the usual selection.
To check the layout or other image elements before printing, select [Preview]. To save the document as a PICT file, select [PICT File].

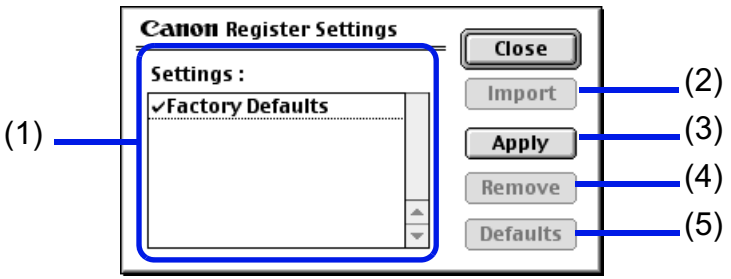
(4) [Print in reverse order]
Prints the document starting with the last page.

(5) [Print collated pages]
Prints multiple copies of the document one copy at a time.

(6) Preview Area

[Register Settings] Dialog Box

To open the [Register Settings] dialog box, click the [Apply...] button in the [Print] dialog box.



(1) [Settings]
Displays a list of the registered print settings.

(2) [Import]
Imports a set of print settings. To use the settings, select the desired settings in the [Settings] list and click the [Import] button.

(3) [Apply]
Saves the settings currently specified in the [Print] dialog box. After clicking the button, enter the name under which the settings are to be saved.

(4) [Remove]
Deletes unwanted print settings. To delete unwanted settings, select the settings in [Settings] and click the [Remove] button.

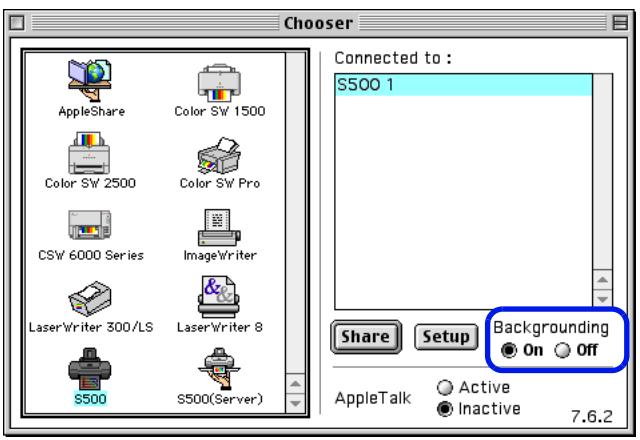
(5) [Defaults]
Restores the print settings selected in [Settings] to defaults. A check mark appears next to the selected print settings.

BJ Print Monitor

The BJ Print Monitor allows you to check the progress of print jobs.
You can launch the BJ Print Monitor if background printing is enabled in the [Chooser] utility.

■ Opening the BJ Print Monitor

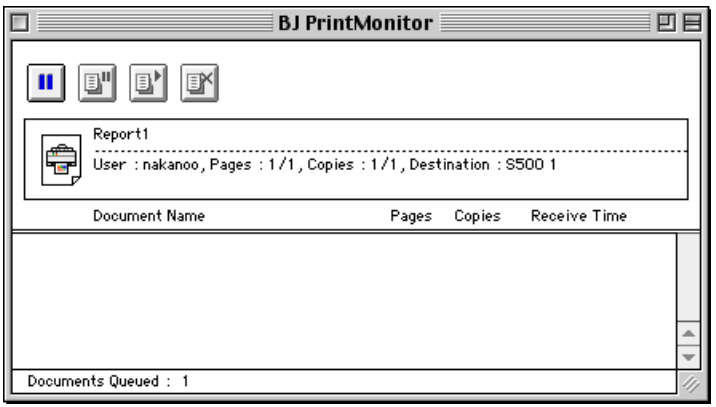
1. Select [Chooser] from the Apple Menu.
2. Set [Backgrounding] to [On].



3. Select [BJ Print Monitor] in the Application Menu.

   The BJ Print Monitor launches.

■ BJ Print Monitor Functions



… Click to pause printing of the specified document.

… Click to resume printing.

… Click to cancel printing of the specified document.

Displays information about the document currently being printed.
The icon on the left becomes darker as the printing progresses.

Displays information about the documents queued for printing.

The BJ Print Monitor allows you to change the print order of documents queued for printing. To change the print order, place the mouse pointer over the name of the document, hold the mouse button down while dragging the document name to the new position, then release. Note, however, that you cannot change the print order of a document already printing.

Cancelling a Print Job

When the BJ Print Monitor is running, you can use it to cancel or suspend the currently printing job.

1. Select [BJ Print Monitor] in the Application Menu.

2. Click the name of the print job you wish to cancel, then click .

   The document selected in the Print Monitor is deleted from the print list and the print job is cancelled.

Note ➤ To suspend printing, click the name of the document being printed then click . To resume printing, click .

Using the Printer with a Network

The printer can be used with an Ethernet network environment.
Follow the steps described below to connect the printer to the network.

■ Before Setting up the Printer

- Install the printer driver on each network computer that will use the printer.
  For information on installation, refer to the *Quick Start Guide*.
- Use a USB cable to connect the printer to the computer that will function as the print server.

■ Printer Setup

To use the printer on a network, first set up the print server, then set up each client machine.

- Print server setup procedure

1 Select [Chooser] in the Apple Menu.

2 Select [Active] in [AppleTalk].

3 Select the [S500] icon, then select the printer name in [Connected to:].

4 Click [Share].

5 Confirm that [S500 server] is selected in [Enter new print server name:] then click [Send].

6 Confirm that the new print server name has been added to [Current print servers] then click [Close].

7 Click the Close box to close the Chooser.

- Client setup procedure

1 Select [Chooser] in the Apple Menu.

2 Select [Active] in [AppleTalk].

3 Select the [S500 (Server)] icon, then select the printer server in [Connected to:].

4 Click the Close box to close the Chooser.

Checking Print Status

- Checking print status from the print server
  To check the status of a print job from the print server, start the BJ Print Monitor.
  Select [BJ Print Monitor] in the Application Menu.
  To close the BJ Print Monitor, select [Close Status Window] in the [File] menu.

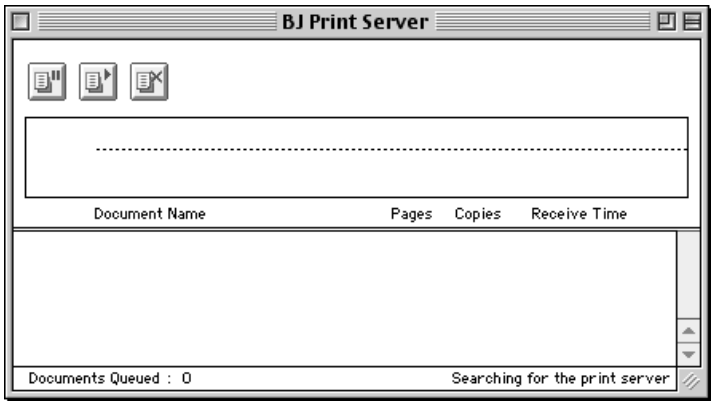
- Checking print status from a client
  To check the status of a print job from a client, start the BJ Status Monitor. Click the [BJ Status Monitor] icon in the [BJ Extras] folder.
  To close the BJ Status Monitor, select [Quit] in the [File] menu.

- The BJ Print Monitor and BJ Status Monitor
  The BJ Print Monitor and the BJ Status Monitor both display a list of information concerning documents queued for printing. This information includes the document name, number of pages, number of copies and the time when the print job was accepted. The total number of queued documents is also displayed.
  The BJ Print Monitor allows you to change the print order of the queued documents.

➡ BJ Print Monitor Functions

➡ BJ Status Monitor Functions

■ BJ Status Monitor Functions



.... Click to pause printing of the specified document.

.... Click to resume printing.

.... Click to cancel printing of the specified document.

Note ➤

- You can determine the owner of a computer by selecting the [File Sharing] control panel and checking the [Owner Name] item.
- If you are using two or more printer servers, you can switch between the BJ Status Monitor displays. Select [Print Server] in the [File] menu, then select the desired print server and click [OK].

Uninstalling Printer Drivers

When a printer driver is no longer needed, use the Installer to delete all the program files associated with it at the same time.

Before proceeding, ensure you save any unsaved files in any currently running applications.

1. Load the *Setup Software & User's Guide CD-ROM*.
2. Double-click the [Printer Driver] folder.
3. Double-click the [Installer] icon.
4. When the Software License Agreement is displayed, click [Accept].
5. Select [Uninstall] from the popup menu, then click [Uninstall].

Note ➤ If a warning message appears indicating that other applications are running:
- Click [Cancel] and save the document(s) if there are any unsaved documents open in the other applications.
- Click [Continue] to continue the uninstall operation.

6. After the uninstall is complete, a message appears prompting you to restart your computer. Click [Restart].

Routine Maintenance

- When to Replace Ink Tank and Maintain Print Head
- Replacing an Ink Tank
- Printing the Nozzle Check Pattern
- Print Head Cleaning
- Print Head Deep Cleaning
- Cleaning the Printer
- Transporting the Printer

When to Replace Ink Tank and Maintain Print Head

When an ink tank is empty, it must be replaced.
The BJ Status Monitor (Windows) or the BJ Print Monitor (Macintosh) will initially advise you of a low ink level. At this stage, you can still continue to print.

Once an ink tank is empty, the BJ Status Monitor (Windows) or the BJ Print Monitor (Macintosh) will tell you to replace the ink tank. Attempting to print causes the POWER lamp to flash four times.

➡ Replacing an Ink Tank

If printing becomes faint or a specific color is no longer printing, even though there is still enough ink, the print head nozzles are probably clogged. Follow the procedures below to clean the nozzles.

➡ Printing the Nozzle Check Pattern

⬇ If the print quality is poor

➡ Print Head Cleaning

⬇ If the problem remains

➡ Print Head Deep Cleaning

If print head deep cleaning does not resolve the problem, the print head may be worn out. Contact a Canon service representative.

Replacing an Ink Tank

When replacing an ink tank, check the model number very carefully. The printer will not print properly if the wrong ink tank is used, or installed in the incorrect position.

With this printer, ink tanks must be installed from the right in the order indicated below.

- Yellow: BCI-3eY
- Magenta: BCI-3eM
- Cyan: BCI-3eC
- Black: BCI-3eBK

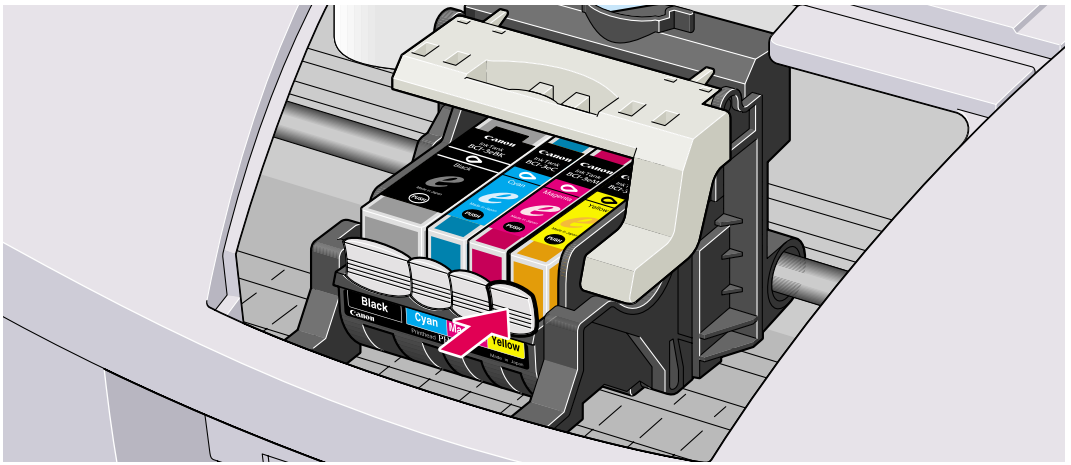
Note ➤ Refilling an ink cartridge can result in poor print quality or cause damage to the printer. Damage caused by using a refilled cartridge is not covered by the Canon warranty. Canon recommends using only original Canon ink tanks to ensure the best quality.

1 Ensure that the printer is on, then open the front cover.

The print head holder will move to the center.

2 Remove the empty ink tank.

Push the tab and remove the ink tank.

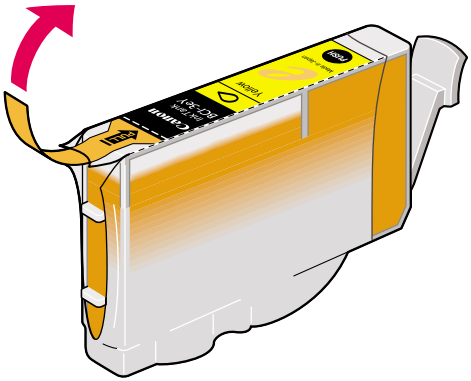


Do not touch the lock lever; remove only the ink tank.

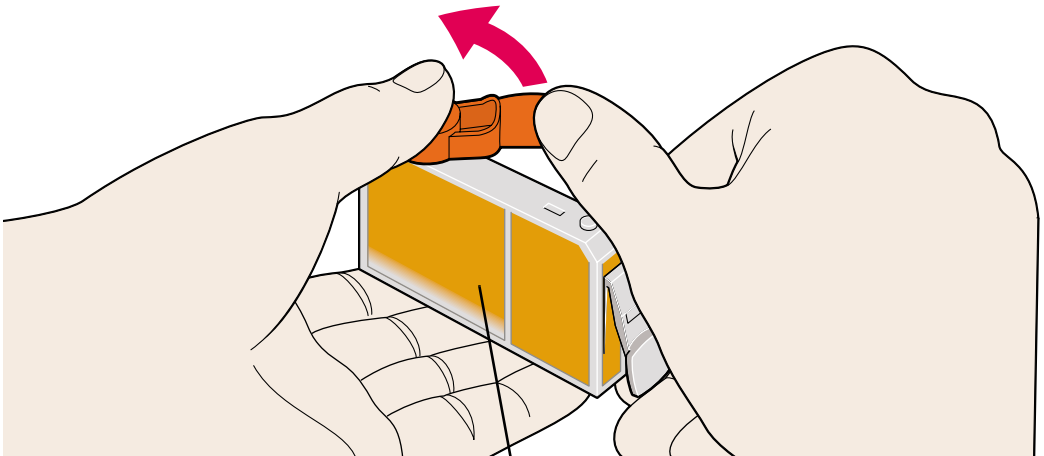
Important ➤

- Handle ink tanks carefully to avoid staining clothing or the surrounding area.
- Discard empty ink tanks according to the local laws and regulations regarding disposal of consumables.

3 Unpack the new ink tank and pull off the orange tape.



4 Remove the orange protective cap from the bottom of the ink tank.



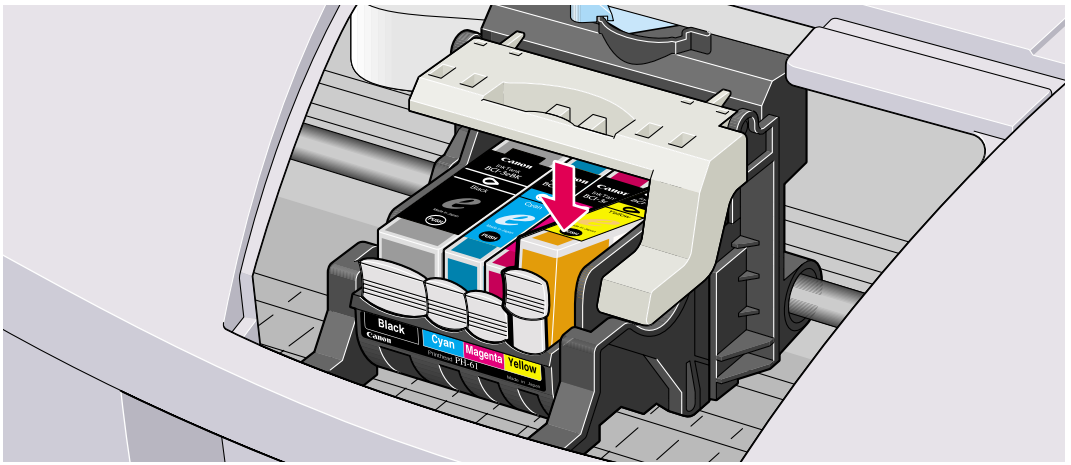
Never press here!
Ink may squirt out of the tank.

Important ➤

- Do not re-attach the protective cap once you have removed it.
- Once you have removed the protective cap, do not touch the open ink port.

5 Insert the ink tank in the print head holder.

Press on the "PUSH" mark until the ink tank snaps firmly into place.



6 Close the front cover.

The print head holder moves to the right. The ink tank installation process is now complete.

Note ➤

- To maintain optimal print quality, use an ink tank within six months of first use.
- Once an ink tank has been used, do not remove it from the printer and leave it out in the open. An ink tank left out in the open then reinstalled in the printer may not function.

Printing the Nozzle Check Pattern

Print the nozzle check pattern to determine whether the ink sprays normally from the print head nozzles, and to verify print head alignment. Use this function when printed results are blurred or the color is incorrect.

Nozzle check pattern printing can be executed from the Windows and Macintosh printer drivers, or from the printer itself.

■ Printing the Nozzle Check Pattern from the Printer Drivers

Windows

1 With the printer on, load a sheet of plain paper in the printer.

2 Open the Printer Properties dialog box.

➡ Opening the Printer Properties Dialog Box

3 Click the [Maintenance] tab, then click the [Nozzle Check] icon.

4 When the confirmation message is displayed, click [OK].

➡ Examining the Nozzle Check Pattern

Macintosh

1 With the printer on, load a sheet of plain paper in the printer.

2 Open the Page Setup dialog box.

The Page Setup dialog box can normally be opened by selecting [Page Setup...] in the [File] menu.

3 Click the [Utilities] button to open the Printer Utilities dialog box.

4 Select [Test Print] from the pull-down menu, then click the [Nozzle Check] icon.

5 When the confirmation message is displayed, click [OK].

➡ Examining the Nozzle Check Pattern

Printing the Nozzle Check Pattern through the Printer

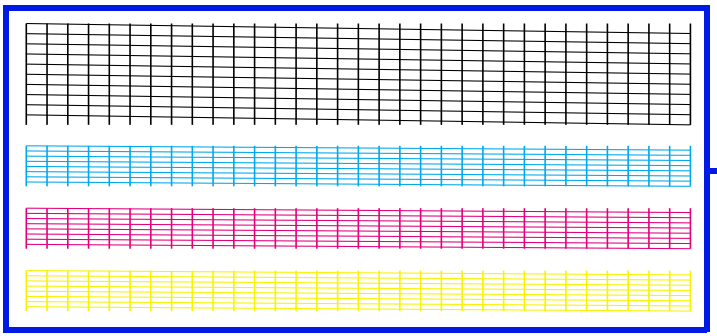
1. With the printer on, load a sheet of paper in the printer.

2. Hold the RESUME/CANCEL button down until the POWER lamp flashes twice.

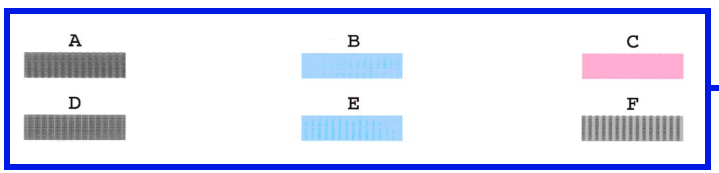
➡ Examining the Nozzle Check Pattern

Examining the Nozzle Check Pattern

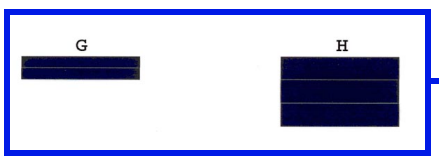
The nozzle check pattern should appear as follows when ink is discharged properly. Examine the nozzle check pattern output by the printer.



Lines missing here indicate the print head requires cleaning.



Unevenness in these patterns indicates the print head requires alignment.



Horizontal stripes in these patterns indicate the print head requires alignment.

Print Head Cleaning

Clean the print head if you suspect that the nozzles might be clogged.
Head cleaning can be performed either from the printer drivers or from the printer itself.

Note ➤ Cleaning the head consumes ink, so perform head cleaning only when necessary.

■ Cleaning the Print Head from the Printer Drivers

Windows

1 Ensure that the printer is on.

2 Open the Printer Properties Dialog Box.

➡ Opening the Printer Properties Dialog Box

3 Click the [Maintenance] tab, then click the [Cleaning] icon.

4 Select the ink nozzles to be cleaned, then click [Execute].

All colors:	All nozzles
Black:	Black ink nozzles
Color:	Color ink nozzles

5 When the confirmation message is displayed, click [OK].

Macintosh

1 Ensure the printer is on.

2 Open the Page Setup dialog box.

The Page Setup dialog box can normally be opened by selecting [Page Setup...] in the [File] menu.

3 Click the [Utilities] button to open the Printer Utility dialog box.

4 Select [Cleaning] from the pull-down menu, then click the [Cleaning] icon.

5 Select the ink nozzles to be cleaned, then click [OK].

All colors:	All nozzles
Black:	Black ink nozzles
Color:	Color ink nozzles

Cleaning the Print Head from the Printer

This operation cleans all nozzles, both black and color. Because this method also resets the printer, any print data stored in the printer is lost.

1 Ensure the printer is on.

2 Hold down the RESUME/CANCEL button until the POWER lamp flashes once.

Now the POWER lamp starts flashing and print head cleaning begins. Do not perform any other operations until the head cleaning finishes. This takes about 40 seconds.
After print head cleaning finishes, print the nozzle check pattern to verify that the print heads are clean.

➡ Printing the Nozzle Check Pattern

Print Head Deep Cleaning

If print quality does not improve by standard print head cleaning, try deep cleaning, which is a more powerful process. Perform print head deep cleaning from the printer driver.

Note ➤ Print head deep cleaning consumes ink, so perform this procedure only when necessary.

Windows

1 Ensure the printer is on.

2 Open the Printer Properties dialog box.

➡ Opening the Printer Properties Dialog Box

3 Click the [Maintenance] tab, then click the [Deep Cleaning] icon.

4 When the confirmation message is displayed, click [OK].

Macintosh

1 Ensure the printer is on.

2 Open the Page Setup dialog box.

The Page Setup dialog box can normally be opened by selecting [Page Setup...] in the [File] menu.

3 Click the [Utilities] button to open the Printer Utility dialog box.

4 Select [Cleaning] from the pull-down menu, then click the [Deep Cleaning] icon.

5 Click [OK].

Now the POWER lamp starts flashing and print head deep cleaning begins. The process takes one or two minutes to complete, so simply wait until the POWER lamp stops flashing. After print head deep cleaning finishes, print the nozzle check pattern to verify that the head is clean. If not, perform print head deep cleaning once more. If the head is still not clean after the second deep cleaning, the print head may be worn out, even if ink remains in the ink tanks. In this event, contact a Canon service representative.

➡ Printing the Nozzle Check Pattern

Cleaning the Printer

During normal printing, ink and small scraps of paper accumulate in the printer. When the accumulated debris becomes clearly visible, clean the printer by the following procedure.

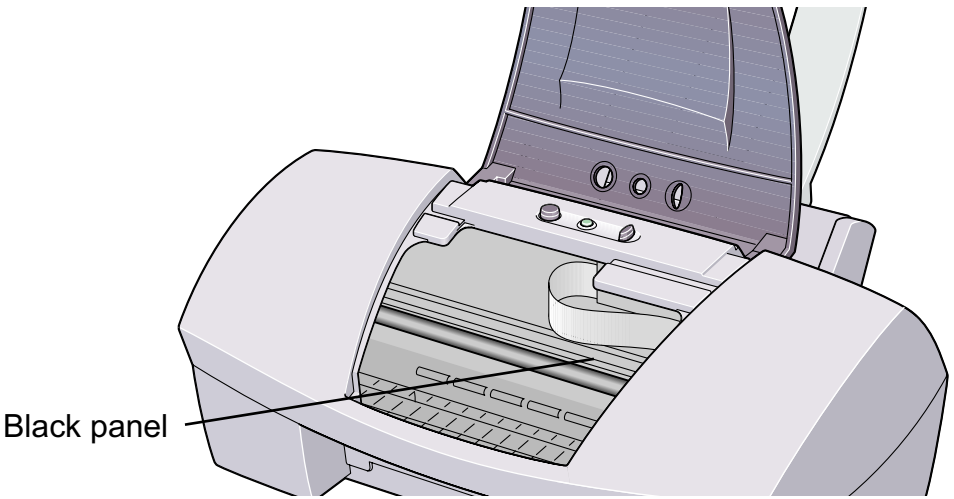
1. Turn the printer off.
2. After making sure that the POWER lamp is off, unplug the printer.

Caution ➤ Always ensure you unplug the printer before cleaning the printer to avoid an electric shock.

3 Open the front cover, and wipe out the interior of the printer with a dry cloth.

Wipe away any stray drops of ink, scraps of paper, and dust. Pay special attention to cleaning the black panel that can be most easily soiled. Do not touch any of the printer's internal components, such as the print head holder.

Warning ➤ Do not use any flammable solvents such as paint thinner, benzene or alcohol.



Transporting the Printer

Pack the printer carefully in its original packing materials.

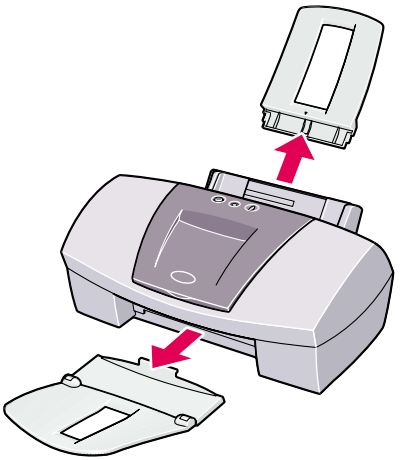
If you do not have the original packing materials, pack the printer carefully and thoroughly in protective material inside of a sturdy box.

1 Turn the printer off.

2 After making sure that the POWER lamp is off, unplug the printer.

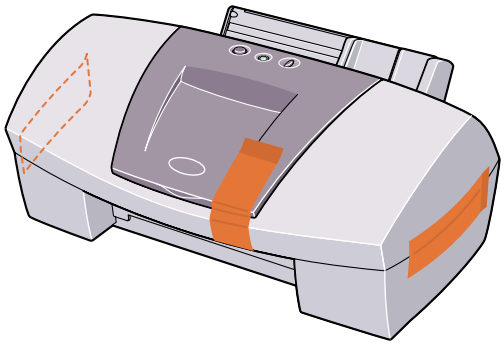
Important ➤ To protect the printer from damage, do not unplug the printer while the POWER lamp is lit or flashing.

3 Remove the paper rest and the paper output tray.



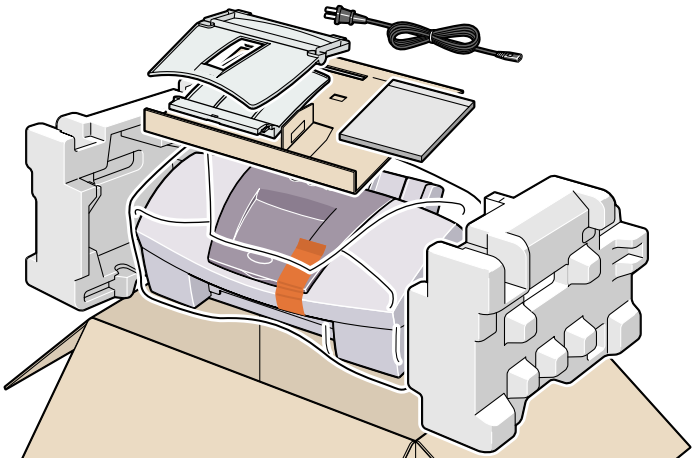
4 Disconnect the printer cable from the computer and from the printer, then disconnect the power cord from the printer.

5 Secure the printer with adhesive tape as shown, then pack it in a plastic bag.



6 Attach protective material to both sides of the printer when packing the printer.

Clearly label the box as "Fragile" if using a transport company.



Printing Media

- Compatible Media Types
- Envelopes
- High Resolution Paper HR-101N
- Glossy Photo Paper GP-301
- High Gloss Photo Film HG-201
- Glossy Photo Cards FM-101
- Photo Paper Pro PR-101
- Photo Paper Pro PC-101S
- Transparencies CF-102
- T-Shirt Transfers TR-201
- Banner Paper

Compatible Media Types

You can use the following types of paper and other media.

■ Size

- Standard paper: From A5 size (5.83 x 8.27 in) to legal size (8.5 x 14.0 in)
- Non-standard paper: From 3.54 x 4.72 in. to 8.5 x 23.0 in.
- Others: Envelopes (US Com. #10)

Important ➤ Do not use the following types of paper. Using such paper will not only produce unsatisfactory results, but can also cause the printer to jam or malfunction.

- Folded, curled or wrinkled paper
- Wet paper
- Paper that is too thin (less than 17 lb.)
- Paper that is too thick (more than 28 lb.)
- Picture postcards
- Postcards with an adhered photo or sticker
- Envelopes with a double flap
- Sealed envelopes
- Envelopes with an embossed or treated surface
- Paper with holes (such as loose-leaf paper)

Weight

17 to 28 lb.
Do not use paper heavier than 28 lb. as it could jam in the printer.

Types

The following types of media can be used.
For more information about the media and the printing methods, refer to the specific sections.

Plain paper: Refer to the *Quick Start Guide*.

- Envelopes
- High Resolution Paper HR-101N
- Glossy Photo Paper GP-301
- High Gloss Photo Film HG-201
- Glossy Photo Cards FM-101
- Photo Paper Pro PR-101
- Photo Paper Pro PC-101S
- Transparencies CF-102
- T-Shirt Transfers TR-201
- Banner Paper

Envelopes

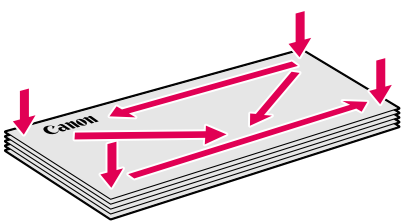
Use Com. #10 size envelopes.

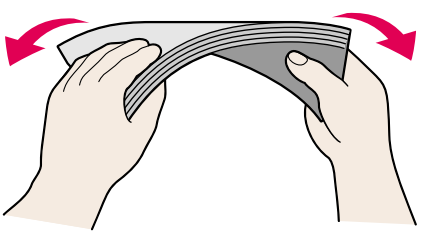
■ Preparation for Printing

1 Press down on all four corners and edges of the envelopes to flatten them as shown below.

2 If the envelopes are curled, hold the opposite corners and gently bend them in the opposite direction.

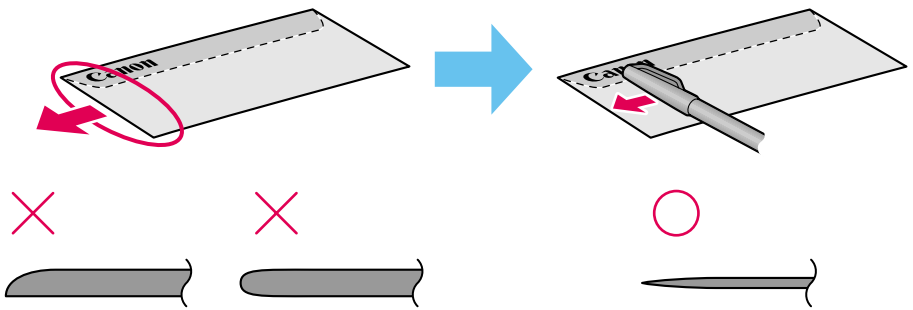
Ensure that the flap of the envelope is perfectly straight.





3 If the leading edge of an envelope is puffed up or curled, use a pen to press the envelope flat and sharpen the crease.

Press the envelope completely flat, working from the middle to the edge.



* The above illustrations show a side view of the leading edge of the envelope.

The envelopes may jam in the printer if they are not completely flat and the edges are not aligned.

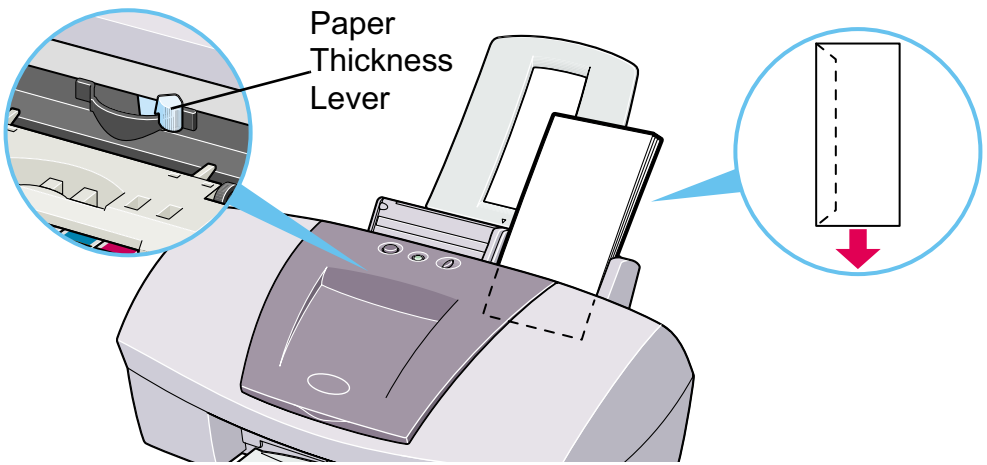
Ensure that no curl or puff exceeds 0.2 in.

■ Unsuitable Envelopes

- Envelopes with an embossed or treated surface
- Envelopes with a double flap or pressure seals

■ Loading

- Place envelopes lengthwise with the flap to the left and the address side facing upwards.
- Set the Paper Thickness Lever to the right.
- Up to 10 envelopes can be loaded at once.



Note ➤ If even after removing any curl in the envelopes they still will not feed properly, clean the paper feed roller.

1 Ensure the printer is turned on. If any paper is loaded in the printer, remove the paper.

2 Hold down the RESUME/CANCEL button; when the POWER lamp flashes three times, release the RESUME/CANCEL button.

The paper roller will rotate ten times as it cleans.
Repeat this operation three times.

3 Load a sheet of plain paper in the printer.

4 Hold down the RESUME/CANCEL button; when the POWER lamp flashes three times, release the RESUME/CANCEL button.
The paper that is loaded in the printer will feed through the printer and be ejected.
Repeat this operation three times.

If the printer still will not feed envelopes through even after cleaning the paper feed roller, perform the procedure described in step 4 again.

■ Printer Driver Settings

- [Media Type]: Envelope
- [Page Size]: Select [Comm Env. #10].
- [Orientation]: Landscape

■ Handling of Printed Output

Remove each envelope as it is printed.

■ Printable Area

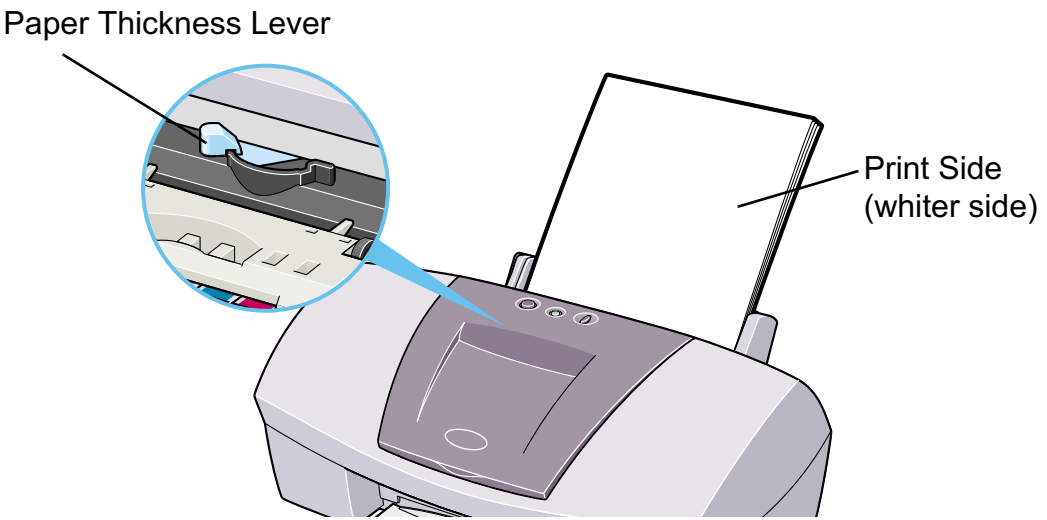
➡ Printing Area

High Resolution Paper HR-101N

This type of paper provides better color reproduction than plain paper. It is suitable for printing business documents that feature graphics, and for photographs.

■ Loading

- Load the paper with the whiter side facing up.
- Set the Paper Thickness Lever to the left.
- Do not load paper higher than the limit mark. A maximum of 80 sheets can be loaded.



Printer Driver Settings

- [Media Type]: High Resolution Paper
- [Page Size]: Ensure the setting matches the size set in the application.

Handling of Printed Output

Do not stack more than 50 sheets in the paper output tray. If the output paper is curled, it may prevent the next sheet being ejected. In this case, or if the ink takes a long time to dry, remove each sheet as soon as it is printed.

Printable Area

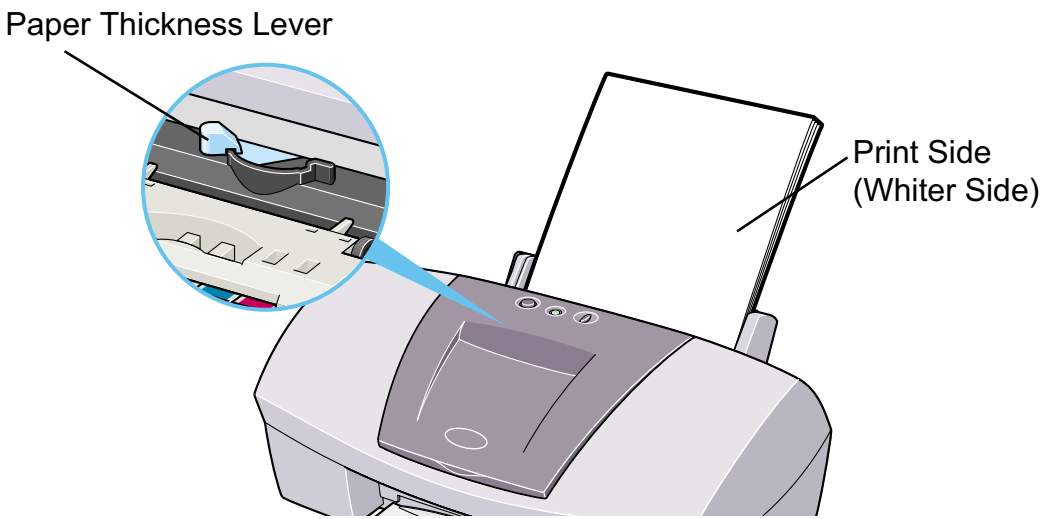
➡ Printing Area

Glossy Photo Paper GP-301

This media is thicker than High Resolution Paper, with a glossy printing surface to produce printouts close to photograph quality.

■ Loading

- Load the paper with the whiter side facing up.
- Set the Paper Thickness Lever to the left.
- A maximum of 10 sheets can be loaded at once.



■ Printer Driver Settings

- [Media Type]: Glossy Photo Paper
- [Page Size]: Ensure the setting matches the size set in the application.

■ Handling of Printed Output

- Do not stack more than 10 sheets in the paper output tray.
- Do not touch the printed surface until the ink dries (approx. two minutes).

■ Printable Area

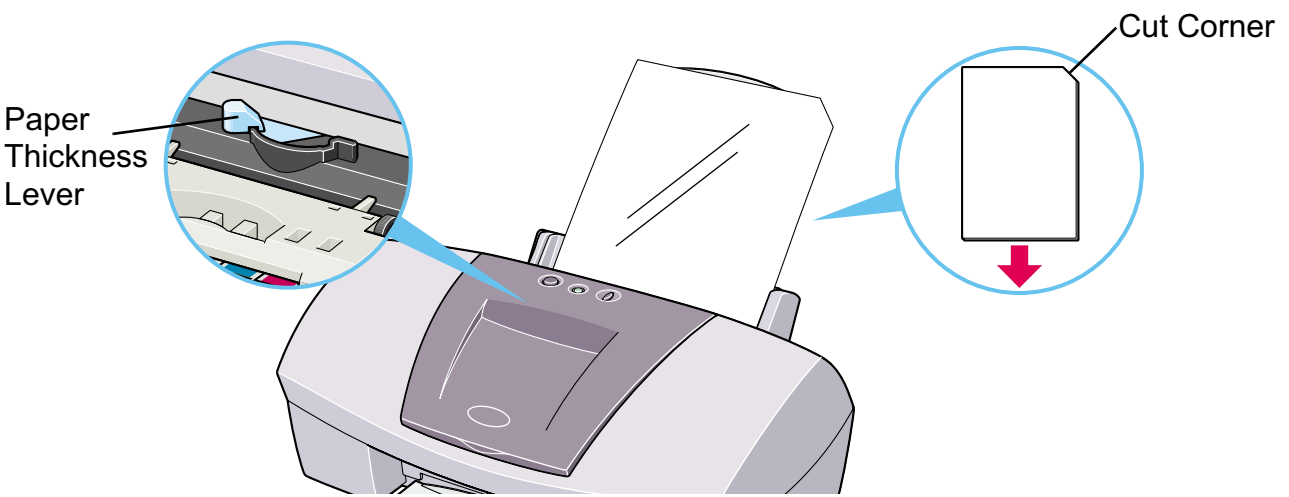
➡ Printing Area

High Gloss Photo Film HG-201

This film has an extremely glossy surface, ideal for printing photographs with outstanding results.

■ Loading

- Load only one sheet at a time.
- Load the film with the cut corner at the upper right.
- If the film is curled, flatten it by curling in the opposite direction.
- Set the Paper Thickness Lever to the left.



■ Printer Driver Settings

- [Media Type]: High Gloss Photo Film
- [Page Size]: Ensure the setting matches the size set in the application.

■ Handling of Printed Output

- Remove each sheet as soon as it is printed.
- Do not touch the printed surface until the ink dries.

■ Printable Area

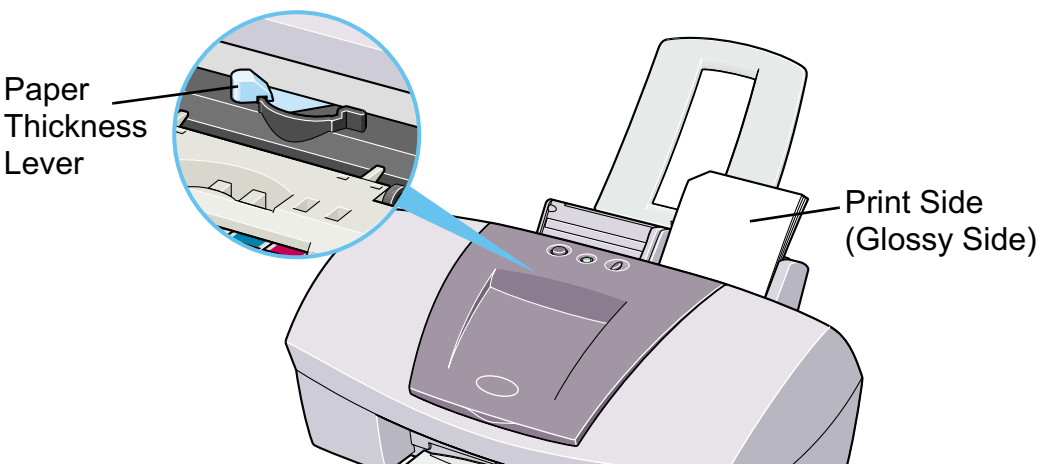
➡ Printing Area

Glossy Photo Cards FM-101

Made of the same material as Glossy Photo Paper GP-301, this photo-size paper is intended for printing images that cover the entire surface of the card, without a white border. To take full advantage of FM-101, make the images slightly larger than the area indicated by the perforations.

■ Loading

- Load the paper with the glossy side facing up.
- Set the Paper Thickness Lever to the left.
- A maximum of 20 sheets can be loaded at once.
- Do not use the loading support sheet provided with the package.



Printer Driver Settings

- [Media Type]: Glossy Photo Cards
- [Page Size]: Canon 4 x 6 in.

Handling of Printed Output

- Do not stack more than 20 sheets in the paper output tray.
- Do not touch the printed surface until the ink dries (approx. two minutes).

Printable Area

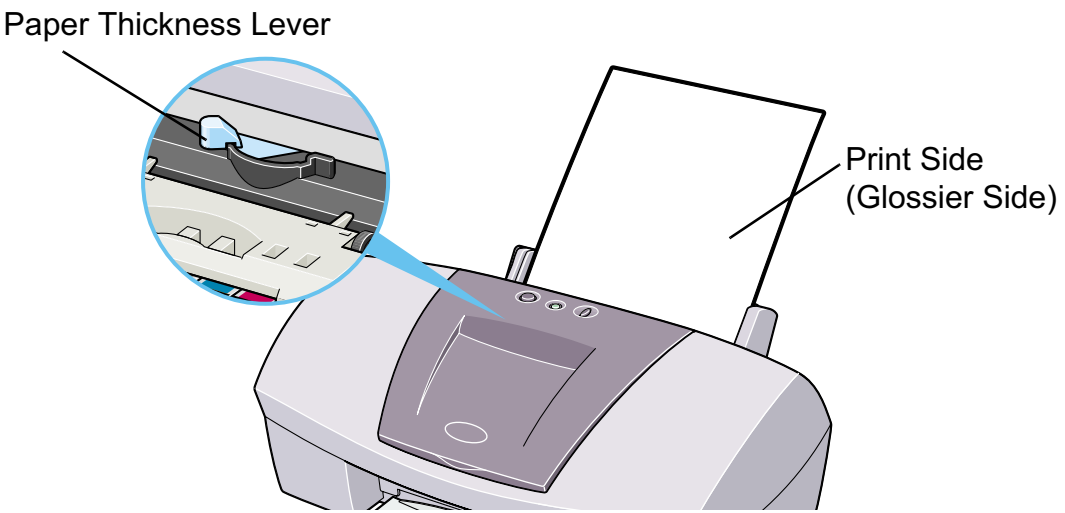
➡ Printing Area

Photo Paper Pro PR-101

This is thick paper with a treated surface that enhances gloss and provides superior color reproduction. It is ideal for printing high quality photographs.

■ Loading

- Load only one sheet at a time.
- Load the paper with the glossier side facing up.
- Set the Paper Thickness Lever to the left.



■ Printer Driver Settings

- [Media Type]: Photo Paper Pro
- [Page Size]: Ensure the setting matches the size set in the application.

■ Handling of Printed Output

- Remove each sheet as soon as it is printed.
- Do not touch the printed surface until the ink dries (approx. 30 minutes).
  Colors in dark images may appear indistinct at first, but become clearer after about 30 minutes.
- Images may smudge if you place them in an album before the ink is completely dry. It is recommended that you allow the ink to dry for 24 hours.
- Do not attempt to dry the ink with a hair dryer or by exposing printed sheets to direct sunlight.

■ Storing Printed Output

- Do not store or display printouts in hot, damp or humid conditions.
  Never expose them to heat or direct sunlight.
- Store printouts in photo albums, photo frames or presentation binders to protect them from direct exposure to air or sunlight.
- Do not mount printouts in an adhesive-type album, as you may not be able to remove them.
- Be aware that some types of clear plastic folders and albums may cause the edges of the paper to turn yellow.

Printable Area

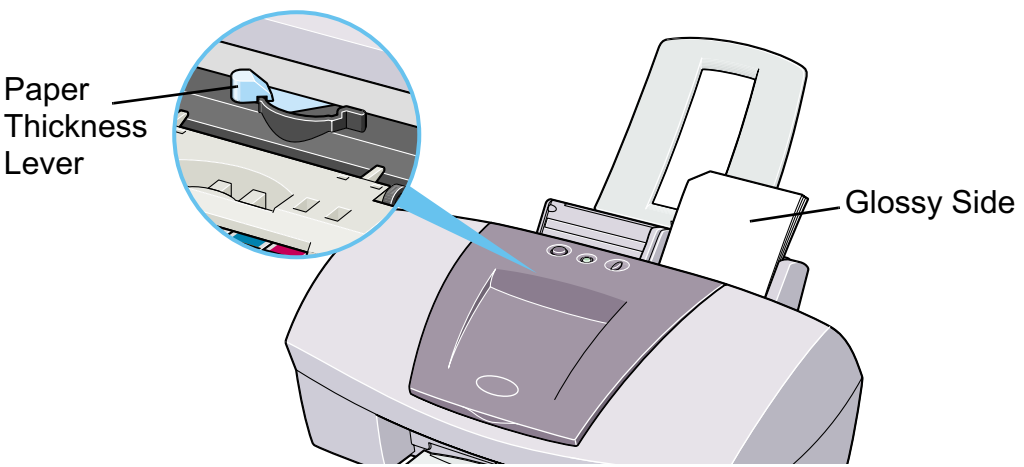
➡ Printing Area

Photo Paper Pro PC-101S

Made of the same material as Photo Paper Pro PR-101, this photo-size paper is intended for printing images that cover the entire surface of the card, without a white border. To take full advantage of PC-101S, make the images slightly larger than the area indicated by the perforations. This paper is ideal for printing high quality photographs.

■ Loading

- Load the paper with the glossy side facing up.
- Set the Paper Thickness Lever to the left.
- A maximum of 20 sheets can be loaded at once.



Printer Driver Settings

- [Media Type]: Photo Paper Pro
- [Page Size]: Select [Custom Size] and enter 4.67 x 8.5 in.

Applications Settings

Enter 4.31 x 6.31 in. in [Image Size].

For details on how to specify the image size, refer to the application's user manual. You may not be able to specify the size of the image correctly in some applications.

Handling of Printed Output

Follow the instructions described in "Photo Paper Pro PR-101".

Printable Area

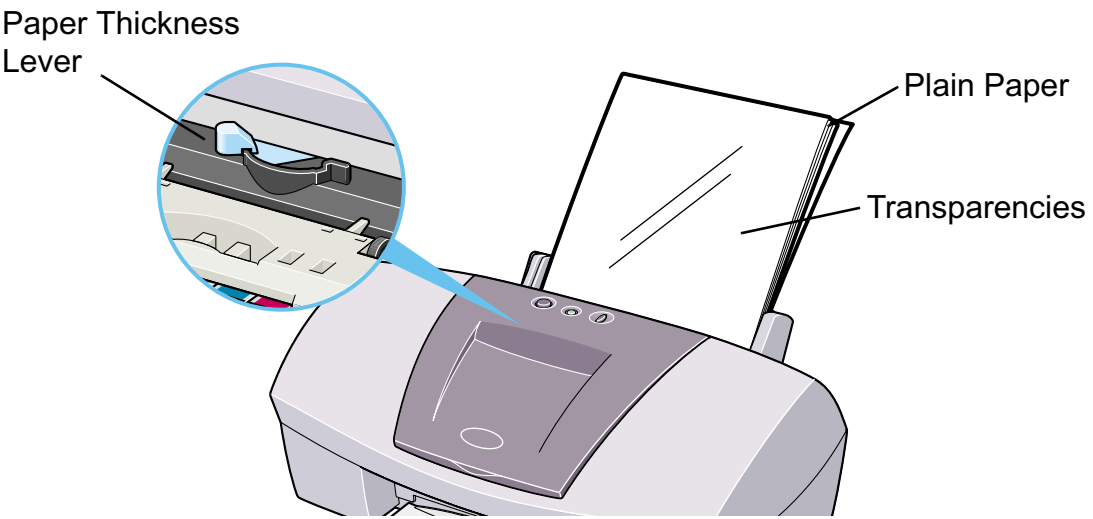
➡ Printing Area

Transparencies CF-102

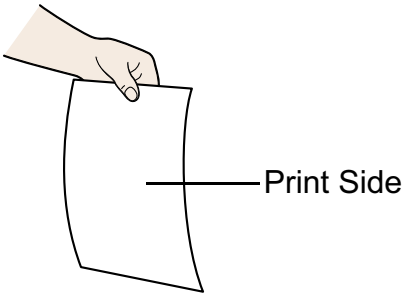
This film is ideal for printing presentation material for use with overhead projectors.

■ Loading

- Place one sheet of plain paper under the transparencies in the sheet feeder.
- Set the Paper Thickness Lever to the left.
- A maximum of 30 sheets can be loaded at once.



- Although you can print on either side of CF-102, best results can be obtained by printing on the side toward which it curls when held by the edge.



■ Printer Driver Settings

- [Media Type]: Transparency
- [Page Size]: Ensure the setting matches the size set in the application.

■ Handling of Printed Output

- Remove each transparency as soon as it is printed.
- Do not touch the printed surface until the ink dries (approx. 15 minutes).

■ Printable Area

➡ Printing Area

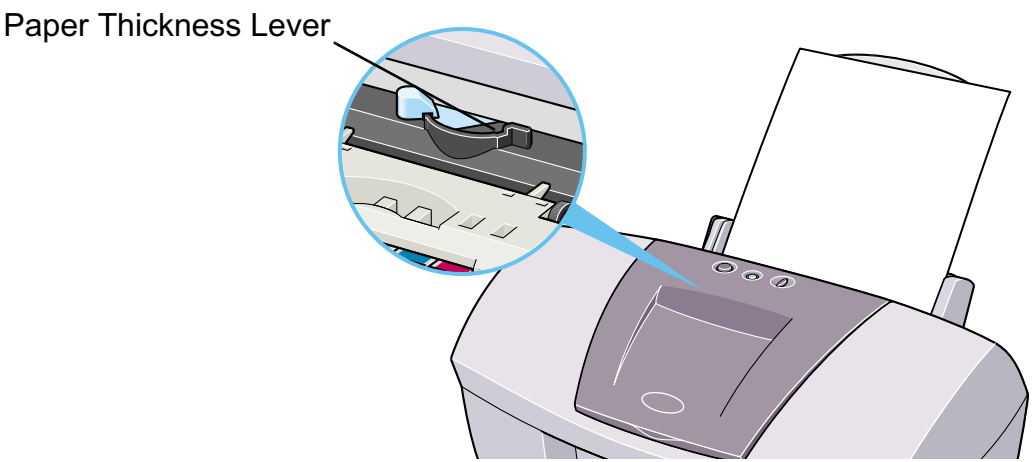
T-Shirt Transfers TR-201

This paper is used to produce iron-on transfers. The image is printed backwards when [Media Type] is set to T-Shirt Transfer in the printer driver.

Note ➤ For the customers in the United States, refer to the *Quick Start Guide* for instructions on using TR-101 T-shirt transfers.

■ Loading

- Load only one sheet at a time.
- If the T-shirt transfer is curled, flatten it by curling it in the opposite direction.
- Load the paper with the side that does not have green lines facing up.
- Set the Paper Thickness Lever to the right.



■ Printer Driver Settings

- [Media Type]: T-Shirt Transfer
- [Page Size]: Ensure the setting matches the size set in the application.

■ Handling of Printed Output

- Remove each T-shirt transfer as soon as it is printed.
- The T-shirt transfer should be used as soon as possible. Refer to the supplied instructions for details on how to use the paper.

■ Printable Area

➡ Printing Area

Banner Paper

This is long paper that consists of consecutive sheets of letter size paper, ideal for printing long posters or banners (up to six sheets long).

■ Preparation for Printing

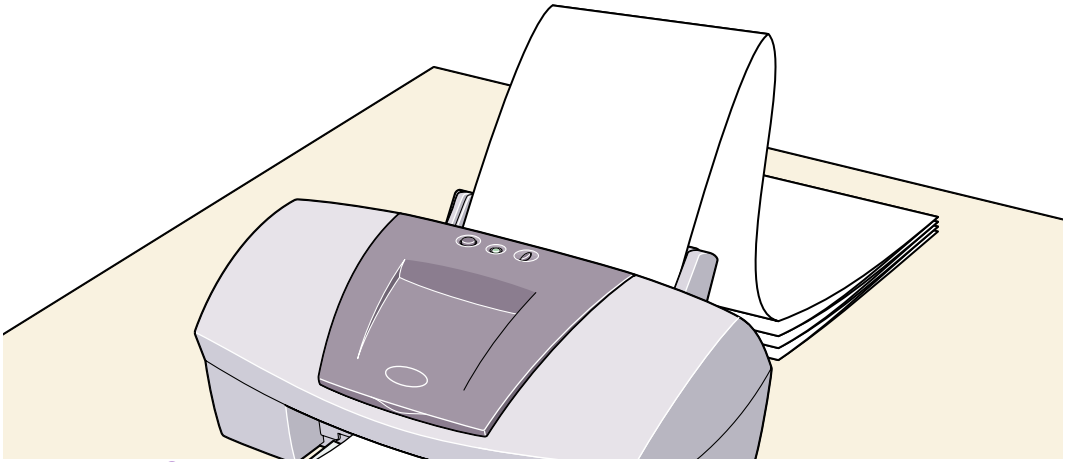
- When tearing the banner paper, tear off one more sheet than you actually need to print.
- The maximum length for one print job is six sheets, so if you will be printing on six sheets, tear off a seven-sheet length.

■ Loading

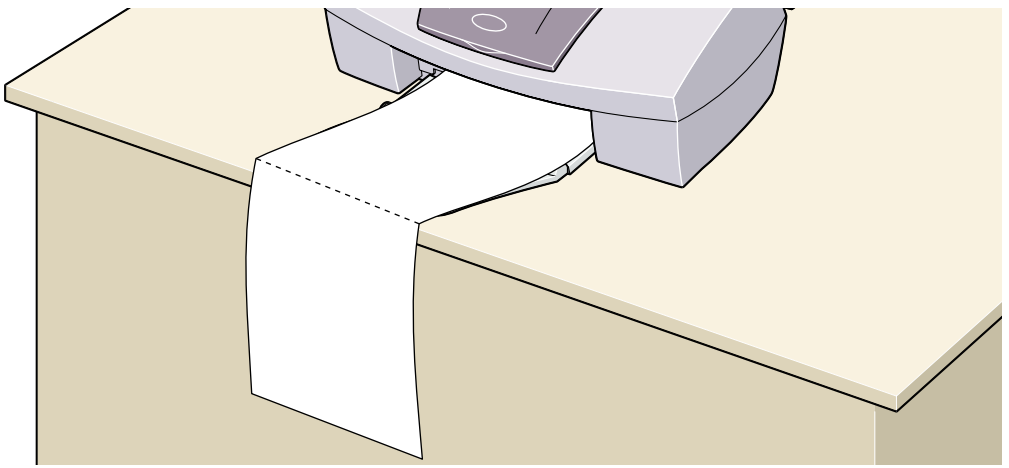
1 Set the Paper Thickness Lever to the right.

2 Load the banner paper with the printing side facing up. Gently fold the perforation between the first and second sheets.

Leave the rest of the paper folded up.



3 Place the printer where the printed banner output can hang over the edge of the table.



Ensure the ink does not stain the table or floor.

Printer Driver Settings

- [Media Type]: Plain Paper
- [Page Size]: When using letter size banner paper: Letter
- [Copies]: Must be set to "1" to print correctly.
- In Windows, select [Banner Printing] for [Printing Type] on the [Page Setup] tab.
- On a Macintosh, before creating the document, select [Banner Printing] in the [Page Setup] dialog box.

Printable Area

➡ Printing Area

Troubleshooting

- Cannot Install the Printer Driver
- Print Quality is Poor or Contains Errors
- Printer Does Not Start or Stops During Print Jobs
- Paper Does Not Feed Properly or Paper Jams
- The POWER Lamp Flashes Orange
- An Error Message is Displayed on the Screen
- Problems Unique to Windows Windows
- Problems Unique to the Macintosh Macintosh

Cannot Install the Printer Driver

■ Follow the installation procedure correctly.

Install the printer driver carefully following the procedures described in the *Quick Start Guide*.

If the printer driver was not installed correctly, reinstall it. If you are using Windows, delete the printer driver before reinstalling it.

➡ Uninstalling Printer Drivers

Note ➤ If the Installer was forcibly terminated due to an error in Windows, Windows may be unstable and this will prevent the printer driver from being installed. Restart the computer before reinstalling the printer driver.

■ Close any other applications before installation.

Sometimes the printer driver cannot be installed because another application is running.

■ **If the Installer for the printer driver does not start up automatically when you insert the *Setup Software & User's Guide CD-ROM*, open the [My Computer] window, then double-click the CD-ROM icon.** Windows

Note ➤ If you are typing in the file name, you must specify the CD-ROM drive letter and the installation program ("MSetup.exe"). The CD-ROM drive letter is computer dependent.

■ **Confirm that there are no problems with the *Setup Software & User's Guide CD-ROM*.**

In Windows, use Windows Explorer to ensure that the CD-ROM can be read. In a Macintosh, check that the CD-ROM icon is visible. If there is a problem with the CD-ROM, contact a Canon service representative.

Print Quality is Poor or Contains Errors

- Cannot Print to End of Job
- Colors are Unclear
- Meaningless Characters or Symbols are Printed
- Printing is Blurred/Colors are Wrong
- Straight Lines are Misaligned
- Printed Paper Curls or Ink Blots
- Back of Paper is Smudged
- Printed Surface is Scratched
- White Streaks
- Colors are Uneven or Streaked

Cannot Print to End of Job

■ **Confirm the Page Size setting matches the size of the paper loaded in the printer.**

First, check the Page Size setting in the application.

Then check the [Page Size] setting in the Printer Properties dialog box for Windows or the Page Setup dialog box for Macintosh.

Note ➤ When using an ECP printer port in Windows, you may not be able to print due to the computer environment. For details, refer to "Problems Unique to Windows".

■ **Check the amount of the space on the hard disk.**

You may need to increase the amount of free space by deleting any unnecessary files.

Colors are Unclear

■ **Confirm the Media Type setting in the printer driver matches the type of paper loaded in the printer.**

If you are printing a photograph or an illustration from a Windows environment, also increase [Print Quality] on the [Main] tab.
If you are working in a Macintosh environment, select the [Photo] or [Graphic] icon for the [Print Mode] in the Print dialog box.

■ **Confirm the specified ink tank is installed.**

When an ink tank runs out of ink, replace it with a new one.

Note ➤ Printed colors may not match screen colors perfectly due to basic differences in the methods used to produce colors. Color control settings and environmental differences can also affect how colors appear on the screen.

Meaningless Characters or Symbols are Printed

■ **If the problem only occurs when printing a specific document, try editing the document then printing it.**

If this does not resolve the problem, there may be a problem with your application program.

Printing is Blurred/Colors are Wrong

■ **If a specific color does not print, check whether the corresponding ink tank is empty. Replace if necessary.**

■ **Print the nozzle check pattern to ensure that ink is output correctly.**

If the nozzle check pattern does not print correctly, clean the print head.

➡ Printing the Nozzle Check Pattern

➡ Print Head Cleaning

If the problem is not resolved after cleaning the print head several times, the print head may be worn out. Contact a Canon service representative.

Note ➤ Always ensure you dispose of the protective cap and protective tape from a print head.

■ **Ensure you are printing on the correct side of the media.**

You can only print on one side of certain media.

Straight Lines are Misaligned

■ Align the print head.

Ensure you align the print head every time you install a new print head.

Windows

1 Open the Printer Properties dialog box.

2 Click the [Maintenance] tab.

3 Click [Print Head Alignment].

Follow the instructions on the screen.

Macintosh

1 Open the Page Setup dialog box.

2 Click [Utilities].

3 Select [Test Print] from the pull-down menu, then click [Print Head Alignment].

Follow the instructions on the screen.

Note ➤ Straight lines can become misaligned if the paper thickness lever has been moved. Aligning the print head may also resolve this problem.

■ **Remove the print head, then reinstall it correctly.**

After reinstalling the print head, ensure you align it.

■ In the printer driver settings, select a higher print quality setting.

Windows

1 Open the Printer Properties dialog box.

2 On the [Main] tab, click [High] for the [Print Quality] setting.

Macintosh

1 Open the Print dialog box.

2 For [Print Mode], select [Manual], then click [Details].

3 Click the [Quality] icon, then drag the [Print Quality] slide bar to the [Fine] end.

Printed Paper Curls or Ink Blots

■ **Use high resolution paper or photo paper to print images that require a lot of ink, (i.e. pictures with intense colors or photographs).**

■ **Reduce the [Intensity] setting in the printer driver and try printing again.**

Windows

1 Open the Printer Properties dialog box.

2 On the [Main] tab, select [Manual] for [Color Adjustment], then click [Set].

3 Drag the [Intensity] slide bar to adjust the intensity.

Macintosh

1 Open the Print dialog box.

2 For [Print Mode], select [Manual], then click [Details].

3 Click the [Color] icon, then drag the [Intensity] slide bar to set the intensity.

Back of Paper is Smudged

■ If the next page prints before the ink is dry, enable the [Pause Page] printer driver setting.

You can either remove each printed sheet from the output tray as soon as it is printed, or enable [Pause Page] to pause after each sheet has printed.

Windows

1. Open the Printer Properties dialog box.
2. Click the [Maintenance] tab.
3. Click [Custom Settings] to open the Custom Setting dialog box.
4. Select [Pause Page], then click [Send].

Macintosh

1 Open the Page Setup dialog box.

2 Click the [Utilities] button.

3 Select [Custom Settings] form the pull-down menu.

4 Select [Pause between pages.], then click [Send].

Printed Surface is Scratched

■ **Ensure you are using suitable paper.**

• The paper weight must be less than 28 lb.

If you use paper heavier than 28 lb., the print head may scratch the printed surface. Clean the print head first and print with the correct paper.

• The paper must not be curled.

This problem can be resolved by simply turning the paper over.

■ **When printing on thick paper, set the paper thickness lever to the "✉" mark.**

This widens a gap between the print head and the paper. If the paper is scratched even when printing on plain paper, also try this.

■ **Reduce the [Intensity] setting in the printer driver and try printing again.**

When printing an image with high intensity, especially on plain paper, the paper may absorb too much ink and become wavy. This may cause the printed surface to become scratched.

Windows

1 Open the Printer Properties dialog box.

2 On the [Main] tab, select [Manual] for [Color Adjustment], then click [Set].

3 Drag the [Intensity] slide bar to adjust the intensity.

Macintosh

1 Open the Print dialog box.

2 For [Print Mode], select [Manual], then click [Details].

3 Click the [Color] icon and drag the [Intensity] slide bar to set the intensity.

■ **Ensure you are printing within the recommended printing area.**

➡ Printing Area

White Streaks

■ **Print the nozzle check pattern to check the ink output.**

If a specific color does not print in the nozzle check pattern, clean the print head.

➡ Printing the Nozzle Check Pattern

➡ Print Head Cleaning

The problem can also be resolved by aligning the print head. For details on print head alignment, refer to **"**Straight Lines are Misaligned**"**.

Colors are Uneven or Streaked

■ Increase the print quality setting in the printer driver settings.

Windows

1 Open the Printer Properties dialog box.

2 On the [Main] tab, click [High] for the [Print Quality] setting.

Macintosh

1 Open the Print dialog box.

2 For [Print Mode], select [Manual], then click [Details].

3 Click the [Quality] icon, then drag the [Print Quality] slide bar to the [Fine] end.

■ Set the halftoning method to [Diffusion] in the printer driver settings.

Windows

1. Open the Printer Properties dialog box.
2. On the [Main] tab, select [Custom] for the [Print Quality] setting, and click [Set].
3. Click [Diffusion] for the [Halftoning] setting.

Macintosh

1. Open the Print dialog box.
2. For [Print Mode], select [Manual], then click [Details].
3. Click the [Quality] icon, then click [Diffusion] for the [Halftoning] setting.

Printer Does Not Start or Stops During Print Jobs

- Printing Does Not Start
- Printing Stops Before It is Completed
- Printer Moves But Does Not Print
- Print Head Holder Does Not Move to the Center

Printing Does Not Start

■ **Ensure the printer is turned on.**

If the lamp is off, press the POWER button.
If the POWER lamp is flashing green, the printer is initializing. Wait until the POWER lamp stops flashing.

Note ➤ When printing a large amount of data such as a photo or graphics, it takes longer than usual to begin printing. While the POWER lamp is flashing, the computer processes the data and sends it to the printer. Simply wait until the processing is completed.

■ **Ensure the printer is securely connected to the computer.**

Note ➤ If you are using a switch box or other device, remove and reconnect the printer directly to the computer. Try printing again.
If printing is now successful, there may be a problem with the device.
Also there could be a problem with the cable(s). Replace the cable(s) and try printing again.

■ Ensure the correct printer driver is selected.

In Windows, ensure that [Canon S500] is selected in the [Print] dialog box.
In Macintosh, ensure that [S500] is selected in the [Chooser].

Note ➤ In Windows, you can set the Canon S500 as the default printer.

■ Ensure the printer port is set correctly. Windows

If using a parallel interface printer cable, set "LPT1" as the printer port.
If using a USB cable, set "USBPRNnn" or "USBnnn" ("n" represents a number) as the printer port.

1. Open the Printer Properties dialog box from the [Start] menu.

   ➡ Opening the Printer Properties dialog box directly from the [Start] menu

2. Click the [Details] tab (or [Ports] tab) and set the printer port.

Printing Stops Before It is Completed

■ **Check the status of the POWER lamp.**

When the POWER lamp is flashing green, the printer is processing data. Printing a large amount of data such as a photo or graphics takes time for the computer to process the data, during which the printer may appear to not be functioning.

In addition, when continuously printing material that uses a large amount of black ink on plain paper, the printer will sometimes pause. In either case, simply wait until the processing is completed.

■ **Halt the print job and turn the printer off for at least 15 minutes to cool the print head down.**

The print head can overheat when continuously printing for long time. To protect the print head, the printer will sometimes pause automatically at a line break before resuming. In this event, interrupt the print job at a convenient time and turn the printer off for at least 15 minutes.

Furthermore, when continuously printing graphics or photos with intense colors, printing may stop to protect the print head. In this case, printing will not resume. Turn the printer off and wait for at least 15 minutes.

Caution ➤ Inside the printer, the area around the print head can become extremely hot. Do not touch the print head or nearby components.

Printer Moves But Does Not Print

■ **Check the ink tanks. If empty, replace them.**

■ **Ensure that the ink tanks snap into place when you install them.**

■ **If there is plenty of ink but the printer does not print, clean the print head.**

After cleaning the print head, print the nozzle check pattern to check that ink is being output normally.

➡ Print Head Cleaning
➡ Printing the Nozzle Check Pattern

If the problem is not resolved by cleaning the print head several times, the print head may be worn out. Contact a Canon service facility.

■ **Check the protective tape has been removed from the print head.**

Ensure that you align the print head after removing the tape and reinstalling the print head.
For details on print head alignment, refer to **"**Straight Lines are Misaligned**"**.

Print Head Holder Does Not Move to the Center

■ **Ensure the printer is turned on.**

The print head holder will not move unless the power is on. If the POWER lamp is off, close the front cover and turn the power on.

If the POWER lamp is flashing green, the printer is initializing.
When the POWER lamp stops flashing, open the front cover again.

■ **If the front cover has been left open for a while, close and reopen it.**

If the front cover is left open for more than 10 minutes, the print head holder moves to the right to prevent the print head from drying out. Close and reopen the front cover to return the holder to the center.

Paper Does Not Feed Properly or Paper Jams

- Paper Does Not Feed Properly
- Paper Jams

Paper Does Not Feed Properly

■ **Confirm the paper conditions.**

- The paper is not too thick (less than 28 lb.).
- The number of sheets loaded does not exceed the recommended level.
- The paper is not creased, curled or wrinkled.

➡ Compatible Media Types

■ **Ensure that the left edge of the paper just touches the paper guide.**

■ **When printing envelopes, refer to "Envelopes" in "Printing Media," and prepare the envelopes before printing.**

Once you have prepared the envelopes, load them in the printer in portrait orientation. If the envelopes are placed in landscape orientation, they may not feed properly.

■ **When using transparencies, load one sheet of plain paper in the printer first, then place the transparencies on top of it.**

The last transparency may not feed properly unless there is a sheet of plain paper beneath it.

Paper Jams

Remove the paper according to the following procedure.

1. Slowly pull the paper out, either from the sheet feeder or from the paper output slot, whichever is easier.

   If the paper tears and a piece remains inside the printer, open the front cover and remove it.

   If you cannot pull the paper out, press the POWER button twice to eject the paper automatically.

2. After removing all paper, close the front cover.

3. Reload the paper into the printer and press the RESUME/CANCEL button.

Note ➤ When reloading the paper into the printer, refer to "Paper Does Not Feed Properly" to confirm that you are using the correct paper and are loading it into the printer correctly.

The POWER Lamp Flashes Orange

An error has occurred in the printer. The number of flashes indicates the type of error, as outlined below. Check the cause and take the appropriate action.

■ Two flashes: Out of paper, paper jam or paper feed error

Replace the paper correctly and press the RESUME/CANCEL button.
If paper has jammed in the printer, clear the jam and press the RESUME/CANCEL button.

■ Three flashes: Paper jam

If paper has jammed in the printer, clear the jam, replace the paper in the printer correctly and press the RESUME/CANCEL button.

➡ Paper Jams

■ Four flashes: Empty ink tank

One of the ink tanks is empty. Replace it.

➡ Replacing an Ink Tank

■ Six flashes: No print head installed

Install a print head.

■ Seven flashes: Defective print head

Remove and reinstall the print head.
Also, ensure that the protective tape has been removed. If reinstalling the print head does not resolve the problem, replace it with a new one.

■ Eight flashes: Waste ink tank almost full

The printer has a built-in waste ink tank for the ink used during print head cleaning. Eight flashes indicates that the waste ink tank is nearly full. Press the RESUME/CANCEL button to cancel the error so you can continue printing. Before the waste ink tank becomes completely full, contact a Canon service representative to have the waste ink tank replaced.

Note ➤ Canon recommends to call for service as soon as this error occurs. Once the waste ink tank becomes completely full, printing will be no longer possible.

■ POWER lamp flashes alternate green and orange: An error that requires contacting a Canon service representative may have occurred.

Turn the printer off and unplug the printer from the power supply. Plug the printer back in and turn the printer back on.
If the problem remains, contact a Canon service representative.

An Error Message is Displayed on the Screen

- Error Writing to LPT1 or USBxxx Windows
- Application Error or General Protection Fault Windows
- Other Error Messages Windows
- Other Error Messages Macintosh

Error Writing to LPT1 or USBxxx

Windows

■ Ensure the printer is turned on.

If the POWER lamp is off, turn the printer on.
If the POWER lamp is flashing green, the printer is initializing. Wait until the POWER lamp stops flashing.

■ Ensure the printer is securely connected to the computer.

Note ➤ If you are using a switch box or other devices, remove and reconnect the printer directly to the computer and try printing again.
If printing is now successful, there may be a problem with the device.
Also there could be a problem with the cable(s). Replace the cable(s) and try printing again.

■ If spooling is enabled, disable it to send the print data directly to the printer and try printing again.

1 Open the Printer Properties dialog box from the [Start] menu.

➡ Opening the Printer Properties dialog box directly from the [Start] menu

2 On the [Details] tab, click [Spool Settings], then select [Print directly to printer].
In Windows 2000 or Windows NT 4.0, click the [Advanced] tab or [Scheduling] tab, then click [Print directly to the printer].

■ Verify the printer port status.

- When using the parallel interface (in Windows 95/Windows 98/Windows Me/Windows 2000)

1 Right-click [My Computer] and select [Properties].

2 Click the [Device Manager] tab.
In Windows 2000, click the [Hardware] tab, then click [Device Manager...].

3 Double-click [Ports (COM/LPT)], then double-click [Printer Port (LPT1)*].

* The printer port name depends on your system environment.

4 On the [General] tab, check for any indication of a problem with the port and if the connected device is available.

5 Click the [Resources] tab, and check the [Conflicting device list]. An error is generated if there are any device conflicts. If necessary, delete any conflicting devices. For details on how to delete a device, refer to the instruction manual for that device.

- When using the USB interface (in Windows 98/Windows Me)

1 Right-click [My Computer] and select [Properties].

2 On the [Device Manager] tab, double-click [Universal serial bus controller], then double-click [Canon S500].

3 On the [General] tab, check for any indication of a problem with the device.

If an error has occurred, follow the instruction of **"**Notes on Handling the USB Interface (for Windows Users)**"** in the *Quick Start Guide*.

■ Ensure that the printer port setting corresponds to the printer interface connection.

Open the Printer Properties dialog box from the [Start] menu, and click the [Details] tab (or [Ports] tab). If [LPT1:(ECP Printer Port)] is displayed in the [Print to the following port] field, the parallel port is selected. If [USBPRNnn (Canon S500)] or [USBnnn (Canon S500)] (**"**n" represents a number) is displayed, the USB port is selected.

➡ Opening the Printer Properties dialog box directly from the [Start] menu

If the setting is incorrect, shut down Windows, turn off the printer and either connect the printer to the interface selected in the printer driver, or install the correct printer driver corresponding to the interface.

■ **There may be a problem in the printer driver. Uninstall the printer driver and reinstall it.**

➡ Uninstalling Printer Drivers

If the printer is connected to the USB interface, follow the procedure “Notes on Handling the USB Interface (for Windows Users)” in the *Quick Start Guide*.

■ **If the WPS driver or CAPT driver is installed, either uninstall it or change the driver port to [FILE] as follows.**

1. Click the [Start] button, then click [Settings] and [Printers].
2. Display the WPS or CAPT driver properties, and click the [Details] tab.
3. Change the [Print to the following port] field to [FILE].

Application Error or General Protection Fault

Windows

■ **Ensure the application program you are using is intended for your operating system.**

For example, if you attempt to print with a Windows 3.1 application under Windows 98, the application may not function correctly and an error may occur.
Use an application program intended for your operating system.

■ **If other applications are running, close them to increase available memory and try printing again.**

■ **Ensure that enough memory is allocated to the application.**

Refer to the memory requirements of your application.

■ **Check the amount of free space on the hard disk.**

You may need to increase the amount of free space by deleting any unnecessary files.

■ **If the problem only occurs when printing a specific document, try editing the document, then printing it.**

If this resolves the problem, there may have been a problem in the original document. If the same problem occurs with the edited document, contact the manufacturer of your application.

■ **There may be a problem in the printer driver. Uninstall the printer driver and reinstall it.**

If the printer is connected to the USB interface, follow the procedure “Notes on Handling the USB Interface (for Windows Users)” in the *Quick Start Guide*.

➡ Uninstalling Printer Drivers

Other Error Messages

Windows

■ If the BJ Status Monitor is displayed, follow the instructions on screen.

If an error occurs during printing, the BJ Status Monitor displays the error on the [Printer Status] tab. Follow the instructions on screen.

In Windows 95, Windows 98 or Windows Me, click the [Guide] tab for action to be taken in response to the error.

■ If one of the following messages is displayed outside of the BJ Status Monitor:

Could not spool successfully due to insufficient disk space
Increase the amount of free space on the disk by deleting any unnecessary files.

Could not spool successfully due to insufficient memory
Increase available memory by closing any other applications currently running.

Printer driver could not be found
Uninstall the printer driver and reinstall it.

➡ Uninstalling Printer Drivers

Background printing failed (Windows 95/Windows 98/Windows Me only)
Restart Windows and try printing again.

Could not print [application name] – [file name]
Try printing again once the current job is finished.

Other Error Messages

Macintosh

■ If a message with the format "Error No.: Xn" (where "X" represents a letter and "n" represents a number) is displayed:

Error No.: X202
Not enough memory for printing. Increase available memory by closing any other applications currently running.

Error No.: X203
There is a problem with the printer driver. Uninstall the printer driver and reinstall it.

➡ Uninstalling Printer Drivers

Error No.: X300
Ensure the power is on, and that the printer and the computer are securely connected. If the problem remains, verify the Chooser setting.

1 In the Apple menu, select [Chooser].

2 Click the S500 icon and ensure S500 is selected as the connected destination.

If it is not selected, select it.

If the problem remains, delete all unnecessary documents from the Extensions and Control Panels folder.

Problems Unique to Windows

Windows

- The BJ Status Monitor is Not Displayed
- Cannot Print in Background (Windows 95/Windows 98/Windows Me only)
- Cannot Print Normally

The BJ Status Monitor is Not Displayed

■ Ensure "Enable bi-directional support for this printer" is selected.

1. Open the Printer Properties dialog box from the [Start] menu.

   ➡ Opening the Printer Properties dialog box directly from the [Start] menu

2. On the [Details] tab (or [Ports] tab), click [Spool Settings] and select "Enable bi-directional support for this printer."

■ If the printer is connected to the parallel interface, ensure the printer cable supports bi-directional communication.

The BJ Status Monitor is displayed only when the computer and cable support bi-directional communication. If you do not know whether your computer and printer cable support bi-directional communication, contact your dealer or computer manufacturer.

Cannot Print in Background (Windows 95/Windows 98/ Windows Me only)

■ Check the amount of free space on the hard disk.

Background printing requires a certain amount of disk space. You may need to delete unnecessary files, or disable background printing.

■ Ensure that background printing is enabled.

1 Open the Printer Properties dialog box.

➡ Opening the Printer Properties Dialog Box

2 On the [Page Setup] tab, click [Printer control...] and select [Background Printing].

Cannot Print Normally

■ When the printer port is set to "ECP", cancel ECP mode, then try printing again.

Sometimes ECP mode disrupts normal printing.

1. Open the Printer Properties dialog box.
2. Click the [Maintenance] tab.
3. Click [Custom Settings] to open the Custom Setting dialog box.
4. Clear the [Set printer to ECP mode] check box, then click [Send].
5. Turn the printer off and back on again.

■ If the WPS driver or CAPT driver is installed, either uninstall it or change the driver port to [FILE] as follows.

The WPS (Windows Printing System) driver or CAPT (Canon Advanced Printing Technology) driver may disrupt normal printing.

1. Click the [Start] button, then click [Settings] and [Printers].
2. Display the WPS or CAPT driver properties, and click the [Details] tab.
3. Change the [Print to the following port] field to [FILE].

Problems Unique to the Macintosh

Macintosh

- Jagged Text or Graphics, or Banded Gradations
- Cannot Print in Background

Jagged Text or Graphics, or Banded Gradations

■ Ensure your application supports Quick Draw.

If you are using a PostScript-compatible application, printed text and lines may appear jagged and gradations may appear banded. As S500 is not a PostScript printer but a Quick Draw printer, use an application compatible with Quick Draw for printing.

Cannot Print in Background

■ Ensure background printing is enabled.

1 In the Apple menu, select [Chooser].

2 Click [Backgrounding] on.

■ Check the amount of free space on the hard disk.

Background printing requires a certain amount of disk space.
You may need to remove unnecessary files, or disable background printing.

Appendices

- Deleting an Unknown Device (USB interface) Windows
- For Faster Printing Windows

Deleting an Unknown Device (USB interface) Windows

If printer driver installation using the USB interface was not successful, carry out the procedure described in “Notes on Handling the USB interface (for Windows Users)” in the *Quick Start Guide*.

If the problem remains, follow the steps below to delete the unknown device.

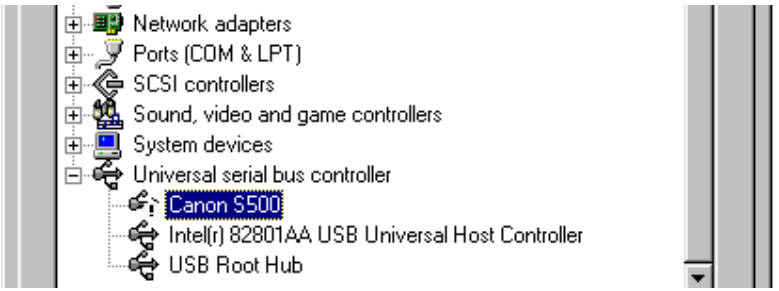
1. Click the [Start] button, select [Settings] and click [Control Panel].
2. Double-click [System].
3. Click the [Device Manager] tab.

   In Windows 2000, click the [Hardware] tab, then click [Device Manager...].
4. Select the name of the printer or ‘Unknown device’ and click [Remove].

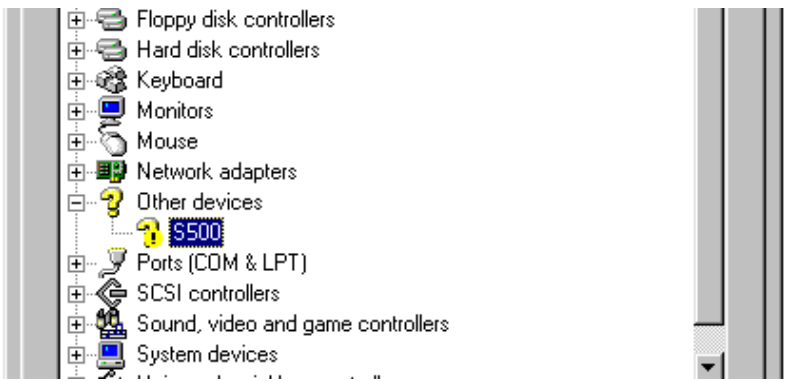
   In Windows 2000, click the unknown device, then click [Uninstall] in the [Action] menu.

Caution ➤ Be careful not to remove any other device. Windows may not function properly if another device is incorrectly deleted.

- If the unknown device is under [Universal serial bus controller]



- If the unknown device is under [Other devices]



5 When the confirmation message appears, click [OK].

6 Click [Close] to close the [System Properties] window.

In Windows 2000, click , then click [OK] in the [System Properties] window.

7 Click at the top right of the [Control Panel] window to close it.

8 Turn the printer off.

9 Remove the *Setup Software & User's Guide CD-ROM*, if it is in the drive.

10 Restart Windows.

11 Install the printer driver again following the instructions in the *Quick Start Guide*.

For Faster Printing

Windows

The USB interface provides the quickest printing with Windows 98, Window Me and Windows 2000. Refer to the *Quick Start Guide* for USB connection details.

When using the parallel printer interface, use the ECP data transfer mode for faster printing.

Note ➤ The ECP mode may not speed up printing on some computers.

1 To enable the ECP mode, first confirm the following:

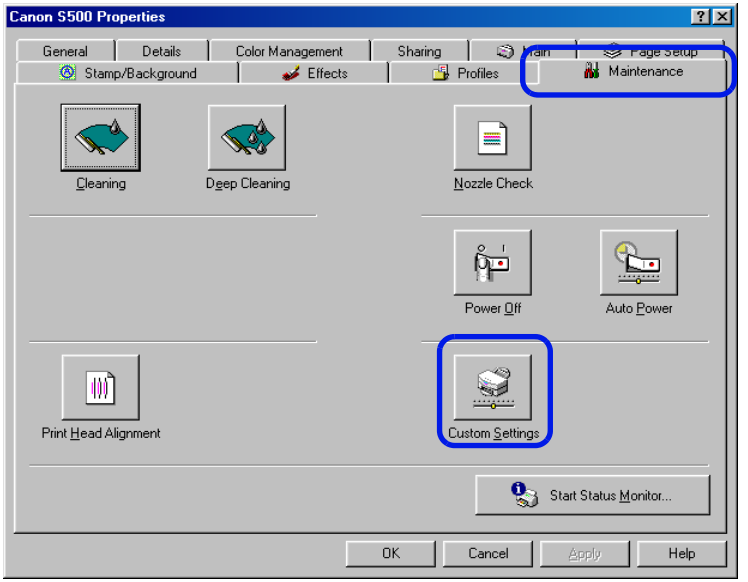
- The printer and computer are connected with a parallel printer cable.
- The printer driver has been installed.
- The printer port of the computer supports the ECP mode.
- The parallel port is set to ECP mode in the BIOS settings.

Note ➤ Refer to your computer manual for details on printer port specifications and BIOS settings.

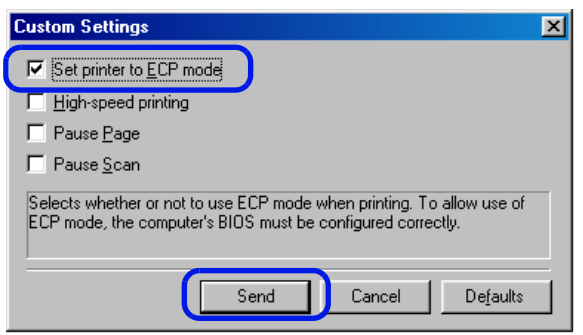
2 Open the Printer Properties dialog box from the [Start] menu.

➡ Opening the Printer Properties dialog box directly from the [Start] menu

3 Click the [Maintenance] tab and click the [Custom Settings] icon.



4 Select the [Set printer to ECP mode] check box and click [Send].



Note ➤

- Some computers may have problems printing in the ECP mode. In this case, clear the [Set printer to ECP mode] check box in the screen above, and click [Send]. Turn the printer off and back on to cancel the ECP mode.
- With Windows 95, a problem may remain after you cancel the ECP mode setting. See also “Unable to Print from the Canon BJ Printer Port” in the on-line Help.

Specifications

Printing method:

Bubble Jet on-demand

Printing resolution:

2400 (horizontal) × 1200 (vertical) dpi max.

Print speed (printing with Canon standard pattern):

Black printing	Standard:	12 ppm
	Draft:	10 ppm
Color printing	Standard:	8 ppm
	Draft:	3.8 ppm

Print direction:

Bi-directional

Print width:

8.0 in. max.

Resident print control mode:

Canon extended mode

Receive buffer:

62 KB

Interface (parallel):

IEEE 1284-compatible

Interface (USB):

USB 1.10-compatible

Interface connector (parallel):

Amphenol 57-40360 or equivalent

Interface connector (USB):

USB standard Series B receptacle (USB interface)

Recommended printer cable (parallel):

Material:	AWG28 or larger
Type:	Twisted-pair shielded cable
Length:	Up to 6.5 ft.
Connectors:	Amphenol 30360 or equivalent

Recommended printer cable (USB):

Material:	AWG28 (data wiring pair) or AWG20 to 28 (distribution pair)
Type:	Twisted-pair shielded cable
Length:	Up to 16.4 ft.
Connectors:	USB standard Series B pluggable

Acoustic noise level:

Approx. 43 dB (A) (in the highest print quality mode)

Operating environment:

Temperature: 41 to 95°F
Humidity: 10 to 90%RH (no condensation)

Storage environment:

Temperature: 32 to 95°F
Humidity: 5 to 90% RH (no condensation)

Power supply:

USA/Canada AC 120 V, 60 Hz

Power consumption:

Standby: 3 W
Printing: 25 W

Dimensions (without paper rest and paper output tray):

16.9 (W) × 11.6 (D) × 7.0 in. (H)

Weight:

Approx. 11 lb.

■ Feed method:

Continuous feed through auto sheet feeder

For Plain paper, Envelopes, High Resolution Paper, Glossy Photo Paper, High Gloss Photo Film, Glossy Photo Cards, Photo Paper Pro, Transparencies, T-shirt Transfers, Banner Paper

■ Sheet feeder capacity:

Plain paper (17 lb.)	100 sheets max.
High Resolution Paper	80 sheets max.
Envelopes	10 pieces max.
Glossy Photo Paper	10 sheets max.
High Gloss Photo Film	1 sheet
Glossy Photo Cards	20 sheets max.
Photo Paper Pro PR-101	1 sheet
Photo Paper Pro PC-101S	20 sheets max.
Transparencies	30 sheets max.
T-Shirt Transfers	1 sheet
Banner Paper	1 sheet

■ Ordinary print media:

Regular size: Letter, Legal, US Com.#10 envelopes

Custom size: width: 3.54 to 8.5 in.
height: 4.72 to 23.0 in.

Weight: 17 to 28 lb.

Canon Special media:

High Resolution Paper	HR-101N
Glossy Photo Paper	GP-301
High Gloss Photo Film	HG-201
Glossy Photo Cards	FM-101
Photo Paper Pro	PR-101
Photo Paper Pro	PC-101S
Transparencies	CF-102
T-Shirt Transfers	TR-201
Banner Paper	

■ Graphic image printing:

Data format: Canon extended mode: Raster image format

Resolution: Canon extended mode: 300, 600, 1200, 2400 dpi

■ Print Head:

Black: 320 nozzles (600 dpi)

Cyan, Magenta, Yellow: 256 nozzles (1200 dpi)

■ Ink Tanks:

Capacity:

Black (BCI-3eBK)	approx. 695*1, approx. 1250*2
Cyan (BCI-3eC)	approx. 460*2
Magenta (BCI-3eM)	approx. 395*2
Yellow (BCI-3eY)	approx. 300*2

*1 1500 characters per page, normal text, at standard and plain paper mode with Windows 95/Windows 98/Windows Me

*2 Based on printing the ISO JIS-SCID No.5 pattern at standard and plain paper mode with Windows 95/Windows 98/Windows Me

Printer driver operating environment:

IBM PC/AT-compatible computer running on Windows 95, Windows 98, Windows Me, Windows NT 4.0, Windows 2000 or Macintosh computers with USB interface running on Mac OS 8.1 or later

Hard disk space:

Approx. 12 MB to install on Windows 95, Windows 98 and Windows Me, 21 MB on Mac OS, or approx. 25 MB on Windows NT 4.0 and Windows 2000 (including temporary files)

Note ➤

- BJ Status Monitor cannot be used when printer is used in network operating environment.
- When connecting printer and computer through USB interface, use the system under the following operating environment.

Windows

Computer with Microsoft Windows 98 or Windows Me, which is pre-installed by a computer manufacturer on purchase. (USB port operation also needs to be assured by the manufacturer.)

Macintosh

Macintosh computers with USB and Mac OS 8.5 or later, which is pre-installed by a computer manufacturer on purchase. (When using an iMac running under Mac OS 8.1, the system must be upgraded using iMac Firmware 1.0, which can be downloaded from the home page of Apple Computer, Inc.)

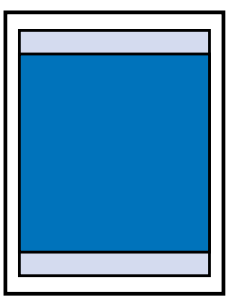
Specifications subject to change without prior notice.

Printing Area

To ensure the best print quality, the printer allows a margin along each edge of media.

Printing area (dark blue): Canon recommends that you print within this area. ( )

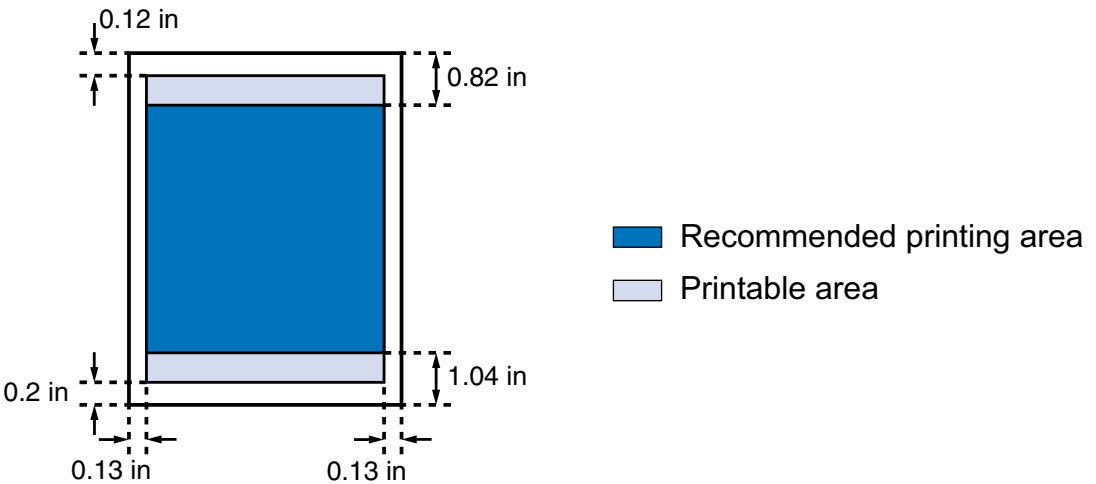
Printable area (light blue): The area where it is possible to print. However, printing in this area can adversely affect the print quality or the paper feed precision. ( )



➡Letter, Legal
➡Glossy Photo Cards
➡Photo Paper Pro (PC-101S)
➡Envelopes
➡Banner Paper

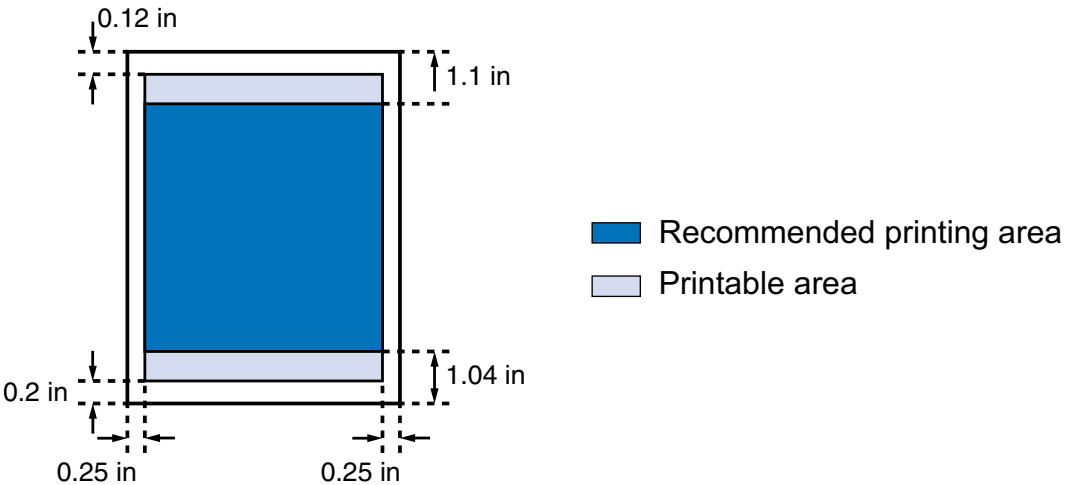
A4, B5, A5

Size	Printable Area (width x height)
A4	203.2 × 289.0 mm / 8.0 × 11.4 in
B5	175.2 × 249.0 mm / 6.9 × 9.8 in
A5	141.2 × 202.0 mm / 5.6 × 7.9 in



Letter, Legal

Size	Printable Area (width x height)
Letter	8.0 × 10.7 in
Legal	8.0 × 13.7 in



Glossy Photo Cards

Size	Printable Area (width x height)
Glossy Photo Card	4.3 × 6.3 in

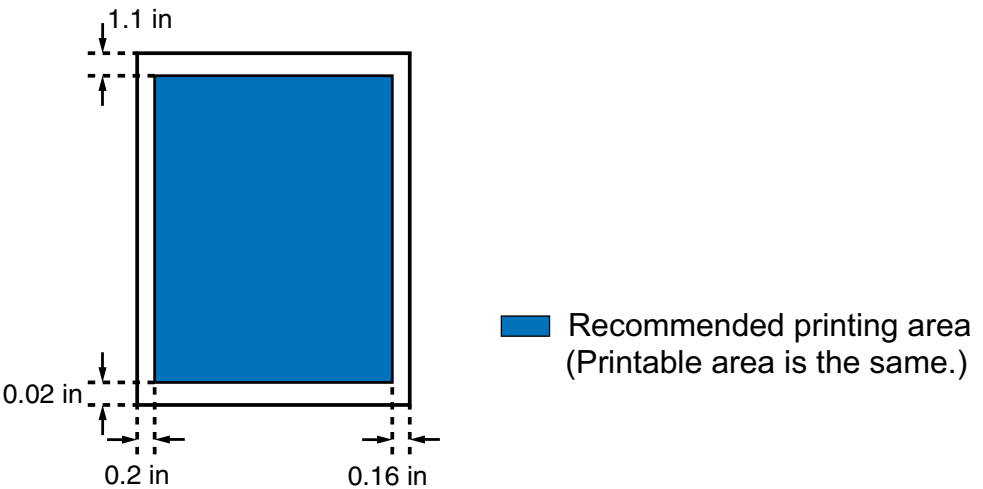
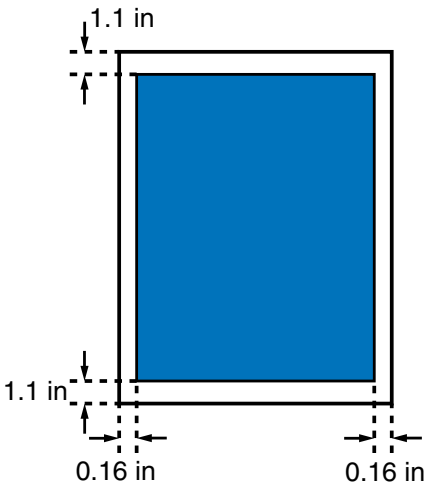


Photo Paper Pro (PC-101S)

Size	Printable Area (width x height)
Photo Paper Pro PC-101S	4.3 × 6.3 in

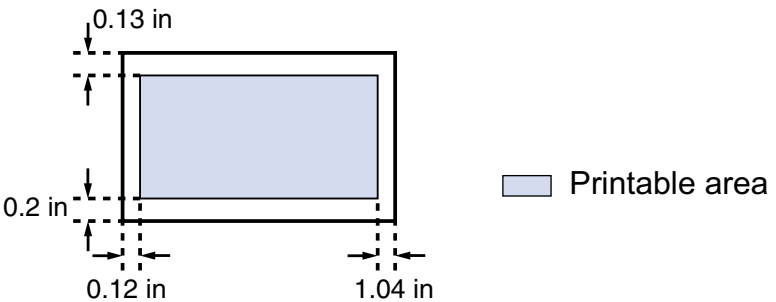
Note ➤ The printing area of Photo Paper Pro PR-101 is identical to that of A4 size paper. For details, refer to "A4, B5, A5".



Recommended printing area
(Printable area is the same.)

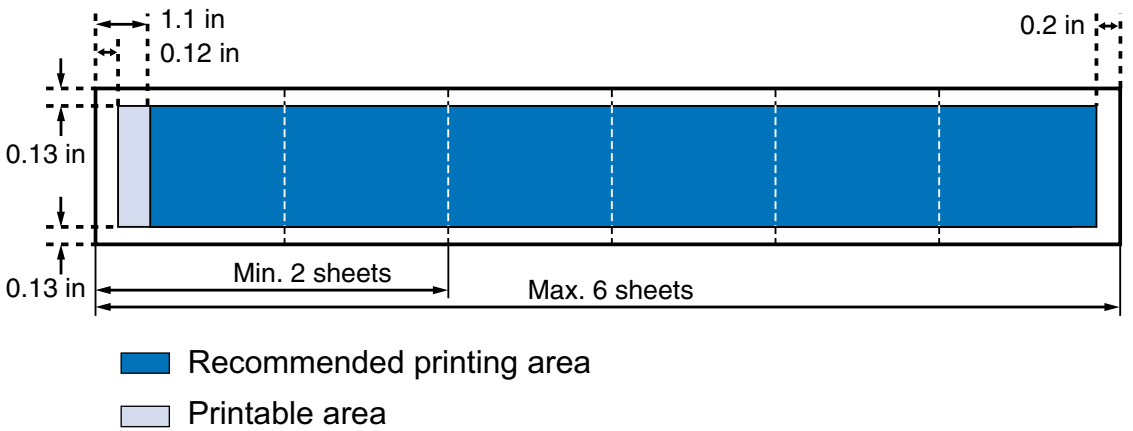
Envelopes

Size	Printable Area (width x height)
US Com. #10	8.3 × 3.9 in



Banner Paper

Size	Printable Area (height x width)
Banner Paper	Letter: 8.0 × 65.7 in



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